

Result No.	Score	Query Match	Length	DB ID	Description
1	2468	100.0	461	A35356	tumor necrosis fac
2	1512	61.3	474	B38634	tumor necrosis fac
3	1477	59.8	459	148852	gene murine tumour
4	381.5	15.5	349	D72175	G2R protein - vari
5	379.5	15.4	348	T28623	hypothetical prote
6	379.5	15.4	349	D36858	gene G4R protein -
7	360.5	14.6	326	GQYZML	T2 protein - myxom
8	341.5	12.8	435	I54182	tumor necrosis fac
9	328	13.3	325	B43692	T2 protein - rabbi
10	317.5	12.9	277	A60771	B-cell activation
11	290.5	11.8	651	2	death receptor-6 -
12	258.5	10.8	305	A46476	B cell-associated
13	251.5	10.2	416	JN0006	nerve growth facto
14	241.5	9.8	595	2	CD30 antigen precu
15	229.5	9.3	271	S12783	OX40 antigen precu
16	223.5	9.1	272	I48700	gene OX40 protein
17	219.5	8.9	493	2	membrane glycoprot
18	217	8.8	277	I37552	OX40 homolog - hum
19	210	8.5	427	1	nerve growth facto
20	198	8.0	461	2	tumor necrosis fac
21	197	8.0	256	B32393	T-cell antigen 4-1
22	197	8.0	425	1	nerve growth facto
23	191.5	7.8	454	1	tumor necrosis fac
24	185.5	7.5	461	1	lymphocyte activat
25	185	7.5	255	2	tumor necrosis fac
26	183.5	7.4	455	1	glucan 1,4-alpha-9
27	166.5	6.7	1367	1	related to C2H2 zi
28	165	6.7	770	2	mycelial surface a
29	161.5	6.5	1203	2	2 T17415

Title:	US-09-800-909-2	Search time 20.87 Seconds	2122.529 Million cell updates/sec		
Perfect score:	2468				
Sequence:	1 MAPVAVAAALAVGELWAAA.....GSTEEKPLPLGVDPAGMKPS	461			
Scoring table:	BLOSUM62				
Gapopen:	10.0	Gapext:	0.5		
Searched:	283138 seqs, 96089334 residues				
Total number of hits satisfying chosen parameters:	283138				
Minimum DB seq length:	0				
Maximum DB seq length:	2000000000				
Post-processing:	Minimum Match 0%				
	Maximum Match 100%				
	Listing first 45 summaries				
Database :	PIR71:*				
	1: Pirl1:*				
	2: Pir2:*				
	3: Pir3:*				
	4: Pir4:*				
Pred.	No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.				
	SUMMARIES				
Result No.	Score	Query Match	Length	DB ID	RESULT 1
1	2468	100.0	461	A35356	tumor necrosis factor receptor 2 precursor [validated] - human
2	1512	61.3	474	B38634	N: Alternative names: 75K tumor necrosis factor receptor type 2
3	1477	59.8	459	148852	C: Species: Homo sapiens (man)
4	381.5	15.5	349	D72175	C: Date: 10-Sep-1999 #sequence-revision 10-Sep-1999 #text-change 08-Dec-2000
5	379.5	15.4	348	T28623	C: Accession: A35356; A36475; A36077; A26666; B35010; I38094
6	379.5	15.4	349	D36858	R: Kohno, T.; Brewer, M.T.; Baker, S.L.; Schwartz, P.E.; King, M.W.; Hale, K.K.; Squir
7	360.5	14.6	326	GQYZML	Proc. Natl. Acad. Sci. U.S.A. 87, 8331-8335, 1990
8	341.5	12.8	435	I54182	A: Title: A second tumor necrosis factor receptor gene defines an unusual family of cellular a
9	328	13.3	325	B43692	A: Reference number: A35356; MUID:9026639
10	317.5	12.9	277	A60771	A: Accession: A36475; MUID:91045991
11	290.5	11.8	651	2	A: Status: preliminary
12	258.5	10.8	305	A46476	A: Molecule type: mRNA
13	251.5	10.2	416	JN0006	A: Residues: 1-195,'R',197-461 <KOH>
14	241.5	9.8	595	2	A: Cross references: GB:S63368; NID:9235648; PIDN:AAB19824.1; PID:g9235649
15	229.5	9.3	271	S12783	R: Dembic, Z.; Loetscher, H.; Gubler, U.; Pan, Y.C.; Lamm, H.W.; Fischer, W.H.; Chang, D.; Ringold, G.M.
16	223.5	9.1	272	I48700	Cytokine 2, 231-237, 1990
17	219.5	8.9	493	2	A: Title: Two human TNF receptors have similar extracellular, but distinct intracellular
18	217	8.8	277	I37552	A: Reference number: A48416; MUID:91370690
19	210	8.5	427	1	A: Status: preliminary
20	198	8.0	461	2	A: Molecule type: mRNA
21	197	8.0	256	B32393	A: Residues: 1-16-140, p',142-195,'R',197-362,'T',364-461 <HEL>
22	197	8.0	425	1	A: Cross references: GB:M35057; NID:91339751; PIDN:AAA63262.1; PID:g9339752
23	191.5	7.8	454	1	R: Loetscher, H.; Schlaeger, E.J.; Lamm, H.W.; Pan, Y.C.E.; Lesslauer, W.; Brockhaus,
24	185.5	7.5	461	1	J. Biol. Chem. 265, 20131-20138, 1990
25	185	7.5	255	2	A: Title: Purification and partial amino acid sequence analysis of two distinct tumor
26	183.5	7.4	455	1	A: Reference number: A36007; MUID:90349572
27	166.5	6.7	1367	1	A: Status: preliminary
28	165	6.7	770	2	A: Molecule type: Protein
29	161.5	6.5	1203	2	A: Residues: 23-40;65-69;136-141;300-306 <LOE>

R; Engelmann, H.; Novick, D.; Wallach, D.
J. Biol. Chem. 265, 1531-1536, 1990
A; Title: Two tumor necrosis factor-binding proteins purified from human urine. Evidence
A; Reference number: A35010; MUID:90110215
A; Accession: B35010
A; Status: Preliminary
A; Molecule type: protein
A; Residues: 27-191 <ENG>
R; Kuhnert, P.; Kemper, O.; Wallach, D.
Gene 150, 381-386, 1994
A; Title: Cloning, sequencing and partial functional characterization of the 5' region of
A; Reference number: 138094; MUID:95121934
A; Accession: I38094
A; Status: Preliminary; translated from GB/EMBL/DDBj
A; Cross-references: EMBL:X80021; NID:q666044; PIDN:CAA56324.1; PID:q825701
C; Genetics
A; Gene: GDB:TNFR2
A; Cross-references: GDB:125914; OMIM:191191
A; Map Position: 1p36.2-1p36.2
A; Introns: 26/3
A; Note: the list of introns is incomplete
C; Superfamily: tumor necrosis factor receptor type 2; NGF receptor repeat homology
C; Keywords: duplication; glycoprotein; receptor; transmembrane protein
F; 1-22/Domain: signal sequence #status predicted <SIG>
F; 23-416/Product: tumor necrosis factor receptor 2 #status experimental <MAT>
F; 40-167/Domain: NGF receptor repeat homology <NG1>
F; 78-119/Domain: NGF receptor repeat homology <NG2>
F; 120-162/Domain: NGF receptor repeat homology <NG3>
F; 262-279/Domain: transmembrane #status predicted <TMN>
F; 280-461/Domain: intracellular #status Predicted <INT>
F; 171,193/Binding site: carbohydrate (Asn) (covalent) #status Predicted
Query Match 100.0%; Score 2468; DB 1; Length 461;
Best Local Similarity 100.0%; Pred. No. 9.8e-134;
Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAPVAAWAAAVGLELWAHHALPAQVAFPTYAPEPGSTCRLREYYDQYTAQCCSKCSPG 60
Db 1 MAPVAAWAAVGLELWAHHALPAQVAFPTYAPEPGSTCRLREYYDQYTAQCCSKCSPG 60
Qy 61 QHAKVFTKTSVTCDSCEDSTYTQLNWNNPPECLSGRSRSDQVETOACTREQRICTC 120
Db 61 QHAKVFTKTSVTCDSCEDSTYTQLNWNNPPECLSGRSRSDQVETOACTREQRICTC 120
Qy 121 RGPWNCALSKQEGRCLCAPLRKCRCFGVARPGTETSDVVKCPAGTFESNTSSDICR 180
Db 121 RGPWNCALSKQEGRCLCAPLRKCRCFGVARPGTETSDVVKCPAGTFESNTSSDICR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSPTRSMAPGVHLPOPVYSTRSQHTQTPPEPSTAPS 240
Db 181 PHQICNVVAIPGNASMDAVCTSPTRSMAPGVHLPOPVYSTRSQHTQTPPEPSTAPS 240
Qy 241 FLLPMGSPSPPAEGSTGDFALPGVLIGVTAFLGLLIGVNVQVIMTQVKPKLCOREAKV 300
Db 241 FLLPMGSPSPPAEGSTGDFALPGVLIGVTAFLGLLIGVNVQVIMTQVKPKLCOREAKV 300
Qy 301 PHLPADKARGTQGPBHQHLLTATPSSSSSLEASSALDRRAPTRNQQAGFVEASGAGE 360
Db 301 PHLPADKARGTQGPBHQHLLTATPSSSSSLEASSALDRRAPTRNQQAGFVEASGAGE 360
Qy 361 ARASTGSSDSSPGGGHGTQVNWTICVNVCSSSDHSSQCSQASSNGTDSSPSPKDEQ 420
Db 361 ARASTGSSDSSPGGGHGTQVNWTICVNVCSSSDHSSQCSQASSNGTDSSPSPKDEQ 420
Qy 421 VPFSEKECAFRSQLETPETLGSTEKKPLPLGVPIAGMKPS 461
Db 421 VPFSEKECAFRSQLETPETLGSTEKKPLPLGVPIAGMKPS 461

Query Match 61.3%; Score 1512; DB 2; Length 474;
Best Local Similarity 63.0%; Pred. No. 3e-79;
Matches 293; Conservative 50; Mismatches 114; Indels 8; Gaps 6;

Qy 1 MAPVAVAAVANGLELWAHHALPAQVAFPTYAPEPGSTCRLREYYDQYTAQCCSKCSP 59
Db 1 MAPAVAVAAVANGLELWAHHALPAQVAFPTYAPEPGSTCRLREYYDQYTAQCCSKCSP 60
Qy 60 GOHAKVFTKTSVTCDSCEDSTYTQLNWNPPECLSGRSRSDQVETOACTREQRICTC 119
Db 61 GOYVKHCKNKTSDTVCAADCASMYTQVNQFRTCLSSSSCTDQVETRACTRQVNRYCA 120
Qy 120 CRPGWNCALSKQEGRCLCAPLRKCRCFGVARPGTETSDVVKCPAGTFESNTSSDICR 178
Db 121 CEAGRYCALTKTHSGSCQMRSLSKCGFGVASSRPNGLVCKACFTGFSDTSTSDV 180
Qy 179 CRPHQICNVVAIPGNASMDAVCTSPTRSMAPGVHLPOPVYSTRSQHTQTPPEPSTAPS 238
Db 181 CRPHRITSILAPGNASTDAVCAPEPTSRQPLDQEFGPSQIP- 239
Qy 239 TSFLLPNGSPSPPAEGST-GDFALPGVLIGVTAFLGLLIGVNVQVIMTQVKPKLCORE 297
Db 240 -SILTSLGSTPITEQSTKGGISLPIGLIVGTVSLGLMLGVLNCILVORKKKPKSCLORD 298
Qy 298 AKVPHLPAKRGTOGEGQOHLLITAPSSSSSLEASSALDRRAPTRNQQAGFVEASGAGE 356
Db 299 AKVPHVDEKSODAVGIEQOHLLTASSSSSSLEASSALDRRAPPGHPQARVMAAQ 358
Qy 357 GGEARASTGSSDSSPGGGHGTQVNWTICVNVCSSSDHSSQCSQASSNGTDSSPSESP 416
Db 359 GFQEARRSSR1SDSSHGHTHVNWTICVNVCSSSDHSSQCSQASSNGTDSSPSESP 418

Qy 417 KDEQVPPFSKEECAFRSQLETPETLGSTEKKPLPLGVPIAGMKPS 461

RESULT 3		A; Residues: 1-349 <SNC> A; Cross references: GB:Y16780; PID:95830555; PIDN:CAB54798_1; PID:95830799 A; Experimental source: strain Garcia-1966 C; Genetics: A; Gene: G2R C; Superfamily: myxoma virus T2 protein; NGF receptor repeat homology
I48854	419 RDEQVPEPSQEBPSQSPCETTL--QSHEKEPLGVPDGMKPS 461	Query Match 15 5%; Score 381.5; DB 2; Length 349; Best Local Similarity 38.1%; Pred. No. 5.7e-15; Matches 80; Conservative 23; Mismatches 86; Indels 21; Gaps 7;
Gene: G2R	gene murine tumour necrosis factor receptor 2 protein - mouse (fragment)	Qy 31 PYAPEPGSTCRLREYDQTAQMCCSKCSPQHAKVFCFTKTSDTVCDSCEPDTYQTLWNWV 90 Db 24 PYTP-PNGRKCKDTEY --KRHNLCCLSCSPGTYASRLLCDSKNTQCTPCGSGGTFISRNHL 80
R; Powell, B.E.; Wicker, L.S.; Peterson, L.B.; Todd, J.A.	C; Species: Mus musculus (house mouse)	Qy 91 PECLSGSRCSQSDQYETQACTREONRICKTCRPGWYCALSKQEGCRLCAPILRKCRCFGFVA 150 Db 81 PACUSCNGRCSNOVETRSNTNHRICBSPGYCLKGSSGKACVSOTKCGIGYGV 140
Mamm. Genome 5, 726-727, 1994	C; Accession number: I48854 ; MDR:95178848	Qy 151 RPGETTSVYCKPCAPGTSNTSSTDICRPHQICNVAVIPGNA --SMDAVCT----ST 203 Db 141 -GHTSVGDVICSPCGFGTYSVTYSVSSTDKCEP-----VPNTNTNYIDVEITLYPVNDT 191
A; Reference number: I48854 ; MDR:95178848	A; Status: preliminary; translated from GB/EMBL/DDJB	Query Match 59 8%; Score 1477; DB 2; Length 459; Best Local Similarity 63.8%; Pred. No. 2.8e-77; Matches 287; Conservative 47; Mismatches 108; Indels 8; Gaps 6; Db* 192 SCRTTTGSESLTSLTSELTITMNTHTDCNP 221
A; Molecule type: mRNA	Qy 16 IWAIAAHALPAVKAFTPYAPEPGSTCRL-REYDQTAQMCCSKCSPGQHAKVFCFTKTSDTV 74 Db 1 LWATGHTVPAQYVLTPKPKEPGYEQCOLSQYEYDRKQMQCCAKCPPGQYVKFCKNK1SDTV 60	RESULT 5 T28623 C; Species: variola major virus C; Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 21-Jul-2000 C; Accession: T28623 R; Massung, R.F.; Esposito, J.J.; Liu, L.I.; Qi, J.; Utterback, T.R.; Knight, J.C.; Au Nature 366, 748-751, 1993 A; Title: Potential virulence determinants in terminal regions of variola smallpox vir A; Reference number: Z20488; MUID:94088747 A; Accession: T28623 A; Status: preliminary; translated from GB/EMBL/DDJB A; Molecule type: DNA A; Residues: 1-348 <MAS> A; Cross references: EMBL:L22579; NID:6232595; PIDN:AAA60933_1; PID:9439102 A; Experimental source: strain Bangladesh 1975 C; Superfamily: myxoma virus T2 protein; NGF receptor repeat homology
A; Residues: 1-459 <REG>	Qy 75 GDSCEGSTYTOIWNWPKPEQLSGSRCSQSDQYETQACTREQNRICTCRPGWYCALSKQEG- 133 Db 61 CADCESMYTQWNQERTCLSQQSSSSTDQVETRACTKQVNQVCAEAGRYALKTHSGS 120 Db 61 CRLCAPLRKCFIEPGYARPGTETSDVYCKPCAPGTSNTSSTDICRPHQICNVAVIPG 193 Db 121 CRQCMRLLSKCFCGFGFQASSRANGNVLKCAQPGTSQSDTSDVCPHRICSLAIPGN 180	Query Match 15 4%; Score 379.5; DB 2; Length 348; Best Local Similarity 37.6%; Pred. No. 7.4e-15; Matches 79; Conservative 24; Mismatches 86; Indels 21; Gaps 7;
A; Cross-references: EMBL:X76401; NID:9433830; PID:9433831	Qy 134 CRLCAPLRKCFIEPGYARPGTETSDVYCKPCAPGTSNTSSTDICRPHQICNVAVIPG 193 Db 121 CRQCMRLLSKCFCGFGFQASSRANGNVLKCAQPGTSQSDTSDVCPHRICSLAIPGN 180	Qy 31 PYAPEPGSTCRLREYDQTAQMCCSKCSPQHAKVFCFTKTSDTVCDSCEPDTYQTLWNWV 90 Db 23 PYTP-PNGRKCKDTEY --KRHNLCCLSCSPGTYASRLLCDSKNTQCTPCGSGGTFISRNHL 79
C; Superfamily: tumor necrosis factor receptor type 2; NGF receptor repeat homology <NGF>; F:151-188/Domain: NGF receptor repeat homology <NGF>;	Qy 194 ASMDAICTSTSPTRSMAPMGAVHLPQPVSTRSQHTQPTPEPSTAPSTSFLLEMPSPFAEG 253 Db 181 ASTDAYCAPESTLSAIPRTIYVSPQEPTRSPOLQDQGPQSCP-T-SILTSGSTPTEQ 238	Qy 91 PECLSGSRCSQSDQYETQACTREONRICKTCRPGWYCALSKQEGCRLCAPILRKCRCFGFVA 150 Db 80 PACUSCNGRCSNOVETRSNTNHRICBSPGYCLKGSSGKACVSOTKCGIGYGV 139
F:151-188/Domain: NGF receptor repeat homology <NGF>;	Qy 254 ST-GDFALPVGLIVGTYAQLGLLIGIVNCVIMTQVKKPLCLQREAKVPHLEPADKARGTQ 312 Db 239 STKGGLSLPISLPTISLIVGTYAQLGLLIGIVNCVIMTQVKKPLCLQREAKVPHLEPADKARGTQ 312	Qy 151 RPGETTSVYCKPCAPGTSNTSSTDICRPHQICNVAVIPGNA --SMDAVCT----ST 203 Db 140 -GHTSVGDVICSPCGFGTYSVTYSVSSADKCEP-----VPNTNTNYIDVEITLYPVNDT 190
Qy 313 GPEQQHLLITAPPSSSSLESSASALDRRAPTRNPOAHPG-EASGAGEARSTGSSDSS 371 Db 299 GLEQHQHLLTAPSSSSLESSASAGDRAPPGHQARYMAEQSQEARSSRTSDSS 358	Qy 152 PYAPEPGSTCRLREYDQTAQMCCSKCSPQHAKVFCFTKTSDTVCDSCEPDTYQTLWNWV 90 Db 359 HGSHGTHVNVTCIVNCVSSDHSSQSSQAASSTMGDTDSSSESPEQPKSEKECAF 431	Qy 204 SPTRSMAPAVH--LPQPVYSTRSQHTQPTP 231 Db 191 SCRTTTGSESLTSLTSELTITMNTHTDCNP 220
Db 299 GLEQHQHLLTAPSSSSLESSASAGDRAPPGHQARYMAEQSQEARSSRTSDSS 358	Qy 372 PGHGCTQVNYTCIVNCVSSDHSSQSSQAASSTMGDTDSSSESPEQPKSEKECAF 431 Db 359 HGSHGTHVNVTCIVNCVSSDHSSQSSQAASSTMGDTDSSSESPEQPKSEKECAF 431	RESULT 6 D36558 D; Gene G4R protein - variola minor virus N; Alternate names: B28R protein (COP)
Qy 372 PGHGCTQVNYTCIVNCVSSDHSSQSSQAASSTMGDTDSSSESPEQPKSEKECAF 431 Db 359 HGSHGTHVNVTCIVNCVSSDHSSQSSQAASSTMGDTDSSSESPEQPKSEKECAF 431	Qy 432 SOLETPTELLSSTEKPLPLGVPDGMKPS 461 Db 419 SPPYETETL--QSHEKEPLGVPDGMKPS 446	A; Description: Analysis of the complete coding sequence of DNA of alastrim variola minor A; Reference number: A72150 A; Accession: D72175 A; Status: preliminary A; Molecule type: DNA
Db 359 HGSHGTHVNVTCIVNCVSSDHSSQSSQAASSTMGDTDSSSESPEQPKSEKECAF 431	Qy 432 SOLETPTELLSSTEKPLPLGVPDGMKPS 461 Db 419 SPPYETETL--QSHEKEPLGVPDGMKPS 446	
Qy 432 SOLETPTELLSSTEKPLPLGVPDGMKPS 461 Db 419 SPPYETETL--QSHEKEPLGVPDGMKPS 446	RESULT 4 D72175 G2 R protein - variola minor virus C; Species: variola minor virus C; Date: 24-Nov-1999 #sequence_revision 24-Nov-1999 #text_change 20-Jun-2000 R; Shchelkunov, S.N.; Tothonenin, A.V.; Gutorov, V.V.; Safronov, P.F.; Lopan submitted to GenBank, March 1998 A; Description: Analysis of the complete coding sequence of DNA of alastrim variola minor A; Reference number: A72150 A; Accession: D72175 A; Status: preliminary A; Molecule type: DNA	

C;Species: variola virus
 C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 23-Mar-2001
 C;Accession: D36858; S46888; S2385; S35987
 R;Blinov, V.M.
 Submitted to GenBank, November 1992
 R;Reference number: A36859
 R;Accession: D36858
 A;Status: Preliminary
 A;Molecule type: DNA
 R;Residues: 1-319 <BLU>
 A;Cross-references: GB:X6198; PIDN:CAA49137.1; PID:9456758; PIDN:CAA49137.1; PID:9456758; ssp. major, isolate Ind3
 A;Experimental source: strain India-1967 ssp. major, isolate Ind3
 R;Kolykhalyov, A.A.; Blinov, V.M.; Gytarov, V.V.; Pozdnyakov, S.G.; Chizhikov, V.E.; Frolov, submitted to the EMBL Data Library, April 1992
 A;Description: Nucleotide sequence analysis of the region of variola virus xhol F O H P
 R;Reference number: S46888
 R;Accession: S46888
 A;Status: Preliminary
 A;Molecule type: DNA
 R;Residues: 1-349 <KOI>
 A;Cross-references: EMBL:X67117; PIDN:CAA47540.1; PID:9516449
 A;Experimental source: strain India-1967; PIDN:CAA47540.1; PID:9516449
 R;Shchelkunov, S.N.; Blinov, V.M.; Sandakhchiev, L.S.
 FEBS Lett. 319, 80-83, 1993
 R;Title: Genes of variola and vaccinia viruses necessary to overcome the host protective
 R;Reference number: S32385; MUID:93202281
 A;Accession: S32385
 A;Molecule type: DNA
 R;Residues: 31-168 <SHC>
 A;Experimental source: strain India-1967, ssp. major
 C;Genetics
 A;Gene: G4R
 C;Superfamily: myxoma virus T2 protein; NGF receptor repeat homology
 R;32-66/Domain: NGF receptor repeat homology <NGF>
 R;68-109/Domain: NGF receptor repeat homology <NGF>
 R;110-151/Domain: NGF receptor repeat homology <NGF>

Query Match 15.4%; Score 379.5; DB 2; Length 349;
 Best Local Similarity 37.6%; Pred. No. 7.4e-15; Matches 79; Conservative 24; Mismatches 86; Indels 21; Gaps 7;

Qy 31 PYAPEGSTCRLEYDQTAQMCCSKSCKSPGQHAKVFTKTSDTVCDSCEDTYQTLWNWY 90
 Db 24 FYPF-NGKCDTEY-KRHNICLCLCPGTYASRLQDSKNTQTCPGSGTFTSRNNHL 80
 Qy 91 PECLSGSGRCSSDQVEQACTREQNRICTCRPGWCALSKDEGCRLCAPLRKCRPGFGVA 150
 Db 81 PAICLSENGRNISNOVETRSCTNTHNRCECSPGPYCYLLKGSSGCKACVSQTKCGIGYVS 140

Qy 151 RPGETSDWVKPCPAFTPSSTSDICRHOIQCNVATGA--SMDAVCT----ST 203
 Db 141 -GHTSVGDVTCSPCGFTGYTSTVSSADKCEP-----VPNNNTFNVIDVEITLYPVNDT 191

Qy 204 SPTRSMAPGAWH-LQPQVSTRSQHQTTP 231
 Db 192 SCTRRTTGTGLESILTSLETTMMNHTDCNP 221

RESULT 7 GOVZML
 T2 protein - myxoma virus (strain Lausanne)
 C;Species: myxoma virus
 C;Date: 31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change 18-Jun-1999
 C;Accession: A40566
 R;Upton, C.; Macen, J.L.; Schreiber, M.; McFadden, G.
 Virology 184, 370-382, 1991
 A;Title: Myxoma virus expresses a secreted protein with homology to the tumor necrosis f
 A;Reference number: A40566; MUID:91335768
 A;Accession: A40566
 A;Molecule type: DNA
 A;Residues: 1-326 <DPT>

A;Cross-references: GB:M95181; GB:M37976; NID:932309; PIDN:AAA46632.1; PID:9332310
 C;Superfamily: myxoma virus T2 protein; NGF receptor repeat homology
 C;Keywords: glycoprotein
 F;54-105/Domain: NGF receptor repeat homology <NGF>
 F;106-147/Domain: NGF receptor repeat homology <NGF>
 F;66-181-205-238/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 14.6%; Score 360.5; DB 1; Length 326;
 Best Local Similarity 36.9%; Pred. No. 8.4e-14; Matches 75; Conservative 28; Mismatches 86; Indels 13; Gaps 6;

Qy 31 PYAPEGSTCRLEYDQTAQMCCSKSCKSPGQHAKVFTKTSDTVCDSCEDTYQTLWNWY 90
 Db 20 PYGDRGX-CRGNDY-EKDGLCCTSPPPSYASRLQGESPDTSPCKNBTFTASTNHA 76

Qy 91 PECLSGSGRCSSDQVEQACTREQNRICTCRPGWCALSKDEGCRLCAPLRKCRPGFGVA 150
 Db 77 PACYSCRGCTGHLSSESQCDKTDKTRVDCSAGNYCLLKQEGCRICAPTKCAGYGVS 136

Qy 151 RPGETSDVCKPKAPGTSNTTSSTDICRPHQICNVVVALPN - ASMDAVCTSTSPTRS 208
 Db 137 -GHTRTGDVLCTRCPRTYSDAVSSTCT--SSSFNYISWEFLNYPVNDFTSCTTTA---- 189

Qy 209 MAPGVHLFPQVSPTRSQHQTTP 231
 Db 190 -GPNEVVKTSEFSVTLNHTDCDP 211

RESULT 8
 I54182
 tumor necrosis factor receptor 2-related protein - human
 C;Species: Homo sapiens (man)
 C;Date: 24-May-1996 #sequence_revision 24-May-1996 #text_change 17-Mar-2000
 C;Accession: I54182
 R;Baens, M.; Chaffanet, M.; Cassiman, J.J.; Van den Berghe, H.; Marynen, P.
 Genomics 16, 214-218, 1993
 A;Title: Construction and evaluation of a hncDNA library of human 12p transcribed seq
 A;Reference number: I54182; MUID:93252381
 A;Accession: I54182
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Molecule type: mRNA
 A;Residues: 1-435 <RES>
 A;Cross-references: GDB:L04270; PIDN:AAA36757.1; PID:9339762
 C;Genetics:
 A;Gene: GDB:LTRB
 A;Cross-references: GDB:1230195; OMIM:600979
 A;Map position: 12p13.3-12p13.1
 C;Superfamily: tumor necrosis factor receptor type 1; NGF receptor repeat homology

Query Match 13.8%; Score 341.5; DB 2; Length 435;
 Best Local Similarity 29.1%; Pred. No. 1.3e-12; Matches 120; Conservative 45; Mismatches 141; Indels 107; Gaps 25;

Qy 2 APYAVWAAALAVGL-ELWAAA--HALPAQVAFPTPYAPEPGSTCR--LREYDQTAQMCCSK 56
 Db 9 APGLAWGPILVLGFLGLALARQOAPV-----PASE-NOTCRDQEKEYEPQRICCSR 61

Qy 57 CSPCQHAKVFTKTSDTVCDSCEDTYQTLWNWYPECLSGSRQSSDQV--ETQACTR 112
 Db 62 CPPGTYVSAKCSRRTDVTCATCAENSYNEHWNYLTICQLCR--PCDPYNGLEETAPCTS 118

Qy 113 EQNRICRTPGWCALSKDEGCRLCAPLRKCRPGFGVAPGTEVSDVY-----PCPCAP 166
 Db 119 KRKTQCRQPGMCAAWALE-CTHCELSDCPG -- TEAEKLDEVKGNNHCVPCKA 172

Qy 167 GTFSNTSSTSDICRPHQICN---VVAIPGNASMDAVCTSTSPTRSMAPG-----AV 214
 Db 173 GHQNTSSPSPARCOPHTQENQVAAFGTAQSDTTC - KNPLLEPLPPPMMSGTMMLAV 230

Qy 215 HLQOP---VST----RSQHQTQPTPEPSTAPSFL--PMGSP-PAEGS-----254

	RESULT	9
B43682	T2 protein - rabbit fibroma virus	
Qy	C; Species: rabbit fibroma virus, Shope fibroma virus	
	C; Date: 30-Sep-1993 #sequence_Revision 30-Sep-1993 #text_change 07-May-1999	
Db	C; Accession: B43692	
R; Option: C.; Delange, A.M.; McFadden, G.		
Virology 160, 20-30, 1987		
A; Title: tumorigenic poxviruses: genomic organization and DNA sequence of the telomeric		
A; Reference number: A43692; MUID:87321103		
A; Accession: B43692		
A; Status: preliminary		
A; Molecule type: DNA		
A; Residues: 1-325 <UPT>		
Qy	C; Super-references: GB;M17433	
	C; Super-family: myxoma virus T2 protein: NGF receptor repeat homology	
Db	F; 64-105/Domain: NGF receptor repeat homology <NG3>	
F; 106-147/Domain: NGF receptor repeat homology <NG3>		
Query Match	13.3%	Score 328; DB 2; Length 325;
Best Local Similarity	36.9%	Pred. No. 6e-12;
Matches	66	Mismatches 71; Indels 14; Gaps 6;
Qy	31 PYAAPEGSTGRLREYDQTAQMCCSKSPGQHAKVFCTKTSDPTVCDSCEDSTYTQLWNWY 90	
Db	20 PYSSNQGK-CGHDY --EKDGELCASSHPGFASRLQGPGSNIVCSCEDGTETASTNHA 76	
Qy	91 PECLSGCSRSSDQYETQACTREQNRTCTRPGWYCYLALKQKGCRGCRGAPLRKCRPGFYVA 150	
Db	77 PACVCPCTGHLSSQPCRGTHDNCSTGNYCILKQKGCRGCRGAPQTCPAGGVS 136	
Qy	151 RPGTSDTVCKPCAPGFTSNTSSDTCRPHQICNVNAI-----PENASMDAVCTSTS 204	
Db	137 -GHTRAGDTLCEKCPHHTYSDSLSPERCGTS--FNYISVGFLNLYPNV--ETSCTTA 189	
RESULT	10	
A60771	B-cell activation protein CD40 precursor - human	
	NN:Alternate names: B-cell surface antigen Bp50	
C;Species: Homo sapiens (man)		
C;Accession: S04460; A60771		
C;Date: 03-Jun-1993 #sequence_Revision 03-Feb-1994 #text_change 21-Jul-2000		
R;Stamenkovic, I.; Clark, E.A.; Seed, B.		
EMBO J. 8, 1403-1410, 1989		
A;Title: A B-lymphocyte activation molecule related to the nerve growth factor receptor		
A;Reference number: S04460; MUID:89356608		
A;Accession: S04460		
A;Molecule type: mRNA		
A;Residues: 1-27 <STA>		
A;Cross-references: EMBL:X60592; PIDN:CAA43045.1; PID:929851		
A;Accession: A60771		
A;Title: Biochemical characteristics and partial amino acid sequence of the receptor-1		
A;Reference number: A60771; MUID:89093941		
A;Molecule type: protein		
A;Experimental source: Burkitt lymphoma cell line Raji		
C;Genetics:		
A;Gene: CDB:CD40		

A;	Cross-references: GDB:215268; OMIM:109535
C: Map position: 20q12-20q13.2	
C: Superfamily: CD27 antigen; NGF receptor repeat homology	
C: Keywords: B-cell; glycoprotein; phosphoprotein; surface antigen; transmembrane protein	
F: 1-20/Domain: signal sequence #status predicted <SIG>	
F: 21-27/Domain: B-cell activation protein CD40 #status experimental <MAT>	
F: 21-19/Domain: extracellular #status predicted <EXT>	
F: 19-4-215/Domain: transmembrane #status predicted <TMM>	
F: 21-6-77/Domain: intracellular #status predicted <CYT>	
F: 15-3,180/Binding site: carbohydrate (Asn) (covalent) #status predicted	
Query Match Score 12.9%; Length 277;	
Best Local Similarity 26.7%; Pred. No. 2e-11; Gaps 11;	
Matches 92; Conservative 32; Mismatches 124; Indels 97; Gaps 11;	
Qy 23 LPAQVA----FTRYAPEPGSTCRLLREYDQTAAQMCSCSKCSPGQHAKVFCTKTSDFIVCD5 77	
Db 4 LPLQCVLMGCLLTAHVPEPPTACHEKQLLINS- -QCCSLQPQGLLVSQTCETFECECLP 61	
Qy 78 CEDSTTYTQLWNWYPEC-----LSCGSGRCSDDQVETOACTREQRNRCICRGWYWCAFSK 130	
Db 62 CGSESEFLDTWNRETHCHQHYKDPNLGLRVQ-----QKGTESETDTCTCBEWHCT----- 112	
Qy 131 QECGRCLCAPLRKCPRGFVGVARPGTETSDVCKPAPGTESNTSSTDICRPHQICN---- 186	
Db 113 SEACESCVLHRSCSPGKQIATGVSDTCEPPVGFFSNVSAFEKCHPWTSCETKDL 172	
Qy 187 VVAIPGNASMDAVCTSSTSPTRSPMSAGAVHLPPQPVSTRSQHTQTPPEPSTAPSTSFLJPMG 246	
Db 173 VVQAGTNKTDVVCQPDQRLRAL----- 195	
Qy 247 PSSPAEGSTGDFALPVGLIVGVTALGLLITGQHLLITAPSSSSLESSASALDRR 341	
Db 196 -----VVPIIFGILFAILVL-----VNKAHPKQE 232	
Qy 303 ----LPAD-KARGTQGPQQHLLITAPSSSSLESSASALDRR 341	
Db 233 PQEINFPDDLPGSNTAAAPVQETLHGCGQPYTQEDGKESRSIVQERQ 277	
RESULT 11	
JC7705 death receptor-6 - chicken	
C: Species: Gallus gallus (chicken)	
C: Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 09-Nov-2001	
C: Accession: JC7705	
R: Bridgeman, J. T.; Bobe, J.; Goetz, F. W.; Johnson, A. L.	
Biochem. Biophys. Res. Commun. 28(1), 1109-1115, 2001	
A: Title: Conservation of death receptor-6 in avian and piscine vertebrates.	
A: Reference number: JC7705; MUID:21308433; PMID:11414698	
A: Accession: JC7705	
A: Molecule type: mRNA	
A: Residues: 1-651	
C: Keywords: ovary	
A: Cross-references: GB:AF349908	
C: Comment: This receptor, a member of the tumor necrosis factor receptor family, bestresia, activates a cell death and/or survival signaling cascade.	
C: Genetics:	
A: Gene: dr-6	
Query Match Score 11.8%; Length 651;	
Best Local Similarity 31.7%; Pred. No. 1.e-09; Gaps 6;	
Matches 70; Conservative 24; Mismatches 96; Indels 31; Gaps 6;	
Qy 51 QMCCSKCSPGQHAKVFCKTSDFIVCDSCDSTYQOLWNWNPCEUCGSRASSDQVETOAC 110	

Db	49	ELJCDKGPGGTVVSKHGCKTGSTLRECSPCPDGFTFKHENGIERCHPCRKPCPMLPIEKTHC	108	Qy	298	AKVPHLPADK-----ARGTQGPQOHLLITAPSSSSLESSASALDR-----	340	
Qy	111	TREQNRLCTCRPGWYCALSKQEGCRCLAPLKCRPGFGVARQGTETSDVVKCPACPTFS	170	Db	226	EMLP--PARRODQEMEDYPGHNTAAYQETLHCCQPVTQDGRESRISVQEROVTDSI	283	
Db	109	VALTDRCRCLSGTF-----QINDTCVPTCPVNGVRKGKETEVDVRCRPLCLRGTF	162	Qy	341	--RAPTRNPQAPAEVEASGAG	359	
Qy	171	NTTSSTDICRPHQIC---NVVAI-PGNASMDAVCTSTSPTNSMAGPAVHLPPVSTRSQH	226	Db	284	ALRPGLN----PGTAGGDG	300	
Db	163	DVPSVSMKCKTVDGFKNMVVVKPGTKESDNVCXSPA-----SLPN-TSLTSSD	211					
Qy	227	TQTPPESTAPSTSEL-----LPMGSPPPAEGSTGD	257					
Db	212	AQADGETYEAPPATLKPGLNSSLSSPAPRVNGTAE	252					
				RESULT	13			
				JN0006	nerve growth factor receptor, low affinity precursor - chicken			
				N;Alternate names: NGF receptor				
				C;Species: Gallus gallus (chicken)				
				C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999				
				C;Accession: JN0006; MUID: A65054				
				R;Large, T.H.; Westkamp, G.; Helder, J.C.; Radeke, M.J.; Misko, T.P.; Shooter, E.M.; R				
				Neuron 2, 1123-1134, 1989				
				A;Title: Structure and developmental expression of the nerve growth factor receptor i				
				A;Reference number: JN0006; MUID: 90166579				
				A;Accession: JN0006				
				A;Molecule type: mRNA				
				A;Residues: 1-416 <LAR>				
				A;Experimental source: embryonic chick brain				
				R;Heuer, J.G.; Ratemie-Nainie, S.; Wheeler, E.F.; Bothwell, M.				
				Dev. Biol. 137, 287-304, 1990				
				A;Title: Structure and developmental expression of the chicken NGF receptor				
				A;Reference number: A65054; MUID: 90152140				
				A;Accession: A65054				
				A;Status: preliminary; not compared with conceptual translation				
				A;Molecule type: mRNA				
				A;Residues: 21-35, 'Y, 37-172, 'R', 174-275, 'S', 277-395, 'R', 397-416 <HEU>				
				A;Comment: This receptor is found on sensory and sympathetic neurons, on neuroblastoma				
				C;Comment: The cysteine rich region of the extracellular domain may form part or all				
				C;Comment: This protein is thought to form a high-affinity receptor when it associate				
				C;Superfamily: nerve growth factor receptor; NGF receptor repeat homology				
				C;Keywords: duplication; glycoprotein; heterodimer; monomer; phosphoprotein; receptor				
				F;1-20/Domain: signal sequence #status predicted <SIG>				
				F;21-416/Domain: nerve growth factor receptor #status predicted <MAT>				
				F;21-239/Domain: extracellular #status predicted <EXT>				
				F;24-57/Domain: NGF receptor repeat homology <NG1>				
				A;Cross-references: Q: B:M83312; NID:91553058				
				A;Note: sequence extracted from NCBI backbone (NCBIN:75206, NCBIPI:75207)				
				A;Note: this translation is not annotated in GenBank entry MUSCD40A, release 113.0				
				R;Grimaldi, J.C.; Torres, R.; Kozak, C.A.; Chang, R.; Clark, E.A.; Howard, M.; Cocckayne,				
				J. Immunol. 149, 3921-3926, 1992				
				A;Title: Genomic structure and chromosomal mapping of the murine CD40 gene.				
				A;Reference number: A46515; MUID: 93094586				
				A;Accession: A46515				
				A;Status: preliminary; not compared with conceptual translation				
				A;Molecule type: nucleic acid				
				A;Residues: 1-287, 'LV, <GR>				
				A;Cross-references: Q: B:M83312; NID:91553058; PID:AAB08705.1; PID:91553059; GB:M94126; N				
				A;Experimental source: BA/B/C, Liver				
				A;Note: sequence extracted from NCBI backbone (NCBIN:120357)				
				C;Comment: For an alternative splice form, see PIR A46515.				
				C;Comment: For an alternative splice form, see PIR A46476.				
				C;Superfamily: CB27 antigen; NGF receptor repeat homology				
				C;Keywords: alternative splicing; transmembrane protein				
				F;105-144/Domain: NGF receptor repeat homology <NGF>				
				Query Match	10.58;	Score 258.5;	DB 2;	Length 305;
				Best Local Similarity	22.8%	Pred. No. 5.1e-08;		
				Matches	87;	Conservative	37;	Mismatches 142; Indels 115; Gaps 14;
				Query Match	10.58;	Score 251.5;	DB 1;	Length 416;
				Best Local Similarity	25.18%	Pred. No. 1.7e-07;		
				Matches	89;	Conservative	48;	Mismatches 164; Indels 53; Gaps 16;
				Query Match	10.28;	Score 251.5;	DB 1;	Length 416;
				Best Local Similarity	25.18%	Pred. No. 1.7e-07;		
				Matches	89;	Conservative	48;	Mismatches 164; Indels 53; Gaps 16;
Qy	5	AAWAALAVGELWAAHALPPAQAVFTPYAPPGSTCRLREYYDQTAQMCCSKCSPGQHAK	64	Qy	23	LPAQVAFTPYAPEBGS--TCCRLEYYDQTAQMCCSKCSPGQHAKVFTKTSDTVCDCSDC	80	
Db	9	ALWGCCLTAVHUGQCV-----TSDKQYLDH-GQCCDIQCPESRLT	48	Db	5	VPLILLPLPAGTPWGSKECLTRWY-TTSGECCAKCNLGEVYQPC-GYNOTVCEPCLD	61	
Qy	65	WFCTKTSDFTDYCDSCDSTYDTCVNLWNPCLSGCSGRSSDQ--VETOQACTEQNRICTR	121	Qy	81	S-TYTQLNNWPECLSGCRSSDQVETOACTRSQRNRICTCPRPWYCALSKQEGRCLCAP	139	
Db	49	SHCTALEKTOCHPCDGFSAQWNRETRCHQ-HRICEPNQGLRVRKREG-TAESDTVCTK	106	Db	62	SVTYSDTVSATECPCKPC-TQCYGLHMSMAPCVESDDAVCRCAGYF---QDELSGSCKE	116	
Qy	122	FGWYCALSKOGLCRRGCRUGAPLRKCRPGFGVARQGTETSDVVKCPAPTSNTSSTDCICRP	181	Qy	140	LRCRPGPGVARPOTSDVCPCKPCPQTFSNTSDICRPHTCPRHOTVYAPIGNASDAV	199	
Db	107	EGOHCTT---SADCCEAGAQHTCPIGQGVMMETIDTVCHPCPVGFESNSNSSLFEKCYP	163	Db	117	CTSEVGFLQMLPORDSQPTVCECPGTFSDEANFVDCLPCTICE---ENEVIVKE	171	
Qy	182	HQICN---VVAIPGNASMDAVCTSTSPTNSMAGPAVHLPPVSTRSQHTQPTPEPSTAP	237	Qy	200	CTSTSPT--RSMAP-GAVHLQPQVSTRSQHTQPTPEP-----STAPSTSFLPP	245	
Db	164	WTSCEDKNLEVQKGTSQTNVIGLKSRMRL-----	195	Db	172	CTATSDAECRDGPRTWHTPSLAGSDS-----PEPTRDPFPTEGMATTADIVTTYM	225	
Qy	238	STSFLPMGPSSPPAEGSTGDDALPYALPGYLIVGVTALGLIIGVNCVIMTOVKKPLCLQRE	297	Qy	246	GPSPP-AEGSTGDFDALPYALPGYLIVGVTALGLIIGVNCVIMTOVKKPLCLQREAKVPHLP	304	
Db	196	-----LVPVYNGILITIFGVFL-----YIKVKKRP---KDN	225	Db	197	-----LVPVYNGILITIFGVFL-----YIKVKKRP---KDN	225	

Db	226	GSSQPVVSRGTAIDLIPVYCS1---LAAVYVGLVAYIAF--KRWNCKQKOGANRNP	278	Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
Qy	305	ADKARGTQGPQQQLLITAPSSSSLESSASALDRRAPTRNQPQAPGVVEASGA	358	Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
Db	279	VNQ---TPSPGEKLF----HSDSGTISVDSQSLSHQDQQPNOSTQGPKGDS	323	RESULT	15			
RESULT	14	OX40 antigen precursor - rat		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
A4 2086	CD30 antigen precursor - human	N; Alternative names: K11 antigen; nerve growth factor receptor family member CD30		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
C; Species: Homo sapiens (man)	C; Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 21-Jul-2000	C; Species: Rattus norvegicus (Norway rat)		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
C; Accession: A42086	R; Durkop, H.; Latza, U.; Hummel, M.; Eitelbach, F.; Seid, B.; Stein, H.	C; Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 05-Nov-1999		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
R; Durkop, H.; Latza, U.; Hummel, M.; Eitelbach, F.; Seid, B.; Stein, H.	Cell 68, 421-427, 1992	C; Accession: S12783; S0036		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
A; Title: Molecular cloning and expression of a new member of the nerve growth factor receptor gene	A; Reference number: A4 2086; MUID:92154659	R; Mallatt, S.; Fossum, S.; Barclay, A. N.		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
A; Accession: A42086	A; Molecule type: mRNA	EMBO J. 9, 1063-1068, 1990		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
A; Cross-references: GB:M83554; NID:9180095; PIDN:AAA51947.1; PID:9180096	A; Superfamily: growth factor receptor; transmembrane protein	A; Title: Characterization of the MRC OX40 antigen of activated CD4 positive T lymphocytes		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
A; Cross-references: EMBL:X17037; NID:957830; PIDN:CAA34897.1; PID:957831	C; superfamily: CD27 antigen; NGF receptor repeat homology	A; Reference number: S12783; MUID:9214514		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
A; Residues: 1-595 <DUR>	C; Keywords: glycoprotein; growth factor receptor; transmembrane protein	A; Residues: 1-271 <MAL>		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
A; Experimental source: HUT 102 cell line	F; 1-18/Domain: signal sequence #status predicted <SIG>	A; Cross-references: EMBL:X17037; NID:957830; PIDN:CAA34897.1; PID:957831		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
A; Note: sequence extracted from NCBI backbone (NCBIn:82088, NCBIPI:82090)	F; 19-383/#Domain: extracellular #status predicted <EXT>	C; Keywords: growth factor receptor; transmembrane protein		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
C; Genetics:	F; 384-407/#Domain: transmembrane #status predicted <IMM>	F; 1-19/Domain: signal sequence #status predicted <SIG>		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
A; Gene: CDB:CD30; DIS166E	F; 408-595/#Domain: intracellular #status predicted <CYT>	F; 20-27/#Product: OX40 antigen #status predicted <MAT>		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
A; Cross-references: GDB:131547; OMIM:153243	F; 101/276/Binding site: carbohydrate (Ash) (covalent) #status predicted	F; 211-235/#Domain: transmembrane #status predicted		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
A; Map position: 1P36-1P36	Query Match	Query Match		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
C; Superfamily: NGF receptor repeat homology	Best Local Similarity 9.3%; Score 229.5; DB 2; Length 271;	Best Local Similarity 9.3%; Score 229.5; DB 2; Length 271;		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
C; Keywords: glycoprotein; growth factor receptor; transmembrane protein	Matches 79; Conservative 28; Mismatches 88; Indels 97; Gaps 14;	Matches 79; Conservative 28; Mismatches 88; Indels 97; Gaps 14;		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
F; 1-18/Domain: signal sequence #status predicted <SIG>	Qy	6 VW----AALAVGLELWAAHALPAQVATPTYAPEPGSTCRLEYD--QTAQMCCSKCS 58		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
F; 19-383/#Domain: extracellular #status predicted <EXT>	Db	3 VNVYQOPTAFLILLGILS-----GTVYKLNCVKDTYPSGHKCCRECO 42		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
F; 384-407/#Domain: transmembrane #status predicted <IMM>	Qy	59 PGQIAKVFCTKTSDPVCDSEDSTYTOUWNW--VPECLLGSRSRSSDQVETQACTREQNNT 116		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
F; 408-595/#Domain: intracellular #status predicted <CYT>	Db	43 PGHMVSRCDHTRTDVCHCEPGFYNEA NYDICKQCTQCNRHSSEL--KQNCTPTEDT 100		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492	
F; 101/276/Binding site: carbohydrate (Ash) (covalent) #status predicted	Qy	117 ICICRPGNYCALSKQEGRICLACPLRKCRDPFGVVARGETS--DVYCKPCAPGTESNTT 173		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374	
Qy	11 AVGLELWAAHALPAQVATPTYAPEPGSTC--RLREYVDQPAQMCSCSPQAHAKVECT 68	Qy	117 ICICRPGNYCALSKQEGRICLACPLRKCRDPFGVVARGETS--DVYCKPCAPGTESNTT 173		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492
Db	7 ALGLLFGLARFPQRDPFEE----DTCHGPNPSHYDKAWRRCYCYPGMCLFPHQOCQ 59	Db	101 VCQRPG-----TQPQRDSSHKLUGVDCYCPGPQFES--P 132		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374
Qy	69 KTSDTIVCDSEPDSTYQLMNNWPECLSCGSRSRSSDQVETOACTREQNRTICRGNYCAL 128	Qy	174 SSTDICRPHQICNV --VAIPGNASMDAYCTSTSPTRSMAPGAVHLQPQPVSTRSQHT-- 227		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492
Db	60 QRPTDERRQCEDYYL--DEADRCACTVCSRDDLVKEVKTPAWNNSRVCEPGMFEST 116	Db	133 GSNCACKPMTNCPLSGKQRHPAANSLDIVCEDR-----LLATLWLWQTRTE 181		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374
Qy	129 SKQEGCRLCAPLRKCRPQFGFYARPGTETSDVYCKPCAPG-----167	Db	182 RPTTVPSTTWPRTSQQLPSTPTLVAPEGPA-----PAVILGLGLLA 224		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492
Db	117 SAVNSCARCFEFHVCPAGMTVKEPQTAQKNTVCEPAGPVSPACASPBENCPKBRSSGTIPQ 176	Qy	168 -----TFSNTT-----173		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374
Qy	177 AKPTPYPSATSSASTMPVRGGTIRLAQEAASKLTRADPSQGLSLPTQPOPPEG 236	Db	177 AKPTPYPSATSSASTMPVRGGTIRLAQEAASKLTRADPSQGLSLPTQPOPPEG 236		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492
Qy	174 -----173	Qy	174 -----173		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374
Db	237 SGDCRKQCEPDYIYLDEAGRCTACVSCSRDLVLEKTPCAWNSSRTCECRPMCATSATNS 296	Db	237 SGDCRKQCEPDYIYLDEAGRCTACVSCSRDLVLEKTPCAWNSSRTCECRPMCATSATNS 296		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492
Qy	193 NASMDAVCTSTSPTRSMAPGAVHLPO-----PVTRSQTHTQPTPE----PST 235	Qy	193 NASMDAVCTSTSPTRSMAPGAVHLPO-----PVTRSQTHTQPTPE----PST 235		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374
Db	297 -----CARYVPPICAAFTWKPDMAKDFTFEAPPGLTQPD-CNPPTNGEFAST 348	Db	297 -----CARYVPPICAAFTWKPDMAKDFTFEAPPGLTQPD-CNPPTNGEFAST 348		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492
Qy	236 APSTSFL-----LPMGPSPP-AEGSTGDFAFLPVGLIVWTALGIIIGVNCYIMTO 286	Qy	236 APSTSFL-----LPMGPSPP-AEGSTGDFAFLPVGLIVWTALGIIIGVNCYIMTO 286		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374
Db	349 SPTQSLIVDQSRSKTFPITSAPVALSPTLQVPLDAVGPVLFWIVLWVYQSSAFLICH 408	Db	349 SPTQSLIVDQSRSKTFPITSAPVALSPTLQVPLDAVGPVLFWIVLWVYQSSAFLICH 408		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492
Qy	287 VKKKPLQLQRKAVPHL--PADKARGTQGPQHQHLLTAPSSSSLESSASALDRHAPT 344	Qy	287 VKKKPLQLQRKAVPHL--PADKARGTQGPQHQHLLTAPSSSSLESSASALDRHAPT 344		Qy	345	R---NQPQAPGVVEASGAGEARASTGSSDSSPGG	374
Db	409 --RRACRKRIKQLHLCLYPVQ---TSQPKLE-LVDSRPRRSSTQLRSGASVTEVAAE 460	Db	409 --RRACRKRIKQLHLCLYPVQ---TSQPKLE-LVDSRPRRSSTQLRSGASVTEVAAE 460		Db	461	RGLMSQPLMETCHSVGAAYLE-SLPLQDASPAG	492

Search completed: August 21, 2002, 09:53:43
Job time: 31 sec

4 protein - protein search, using sw model	GenCore version 4.5					
Copyright (c) 1993 - 2000 Compugen Ltd.						
on on:	August 21, 2002, 09:54:07 ; Search time 13.41 Seconds (without alignments)					
title:	US-09-800-909-2					
perfect score:	2468					
sequence:	1 MAPVAVWALAVGLELWAA.....GSTEEKPLPLGVDDAGMKPS 461					
scoring table:	BLOSUM62					
gapopen:	10.0 , Gapext 0.5					
searched:	105224 seqs, 38719550 residues					
total number of hits satisfying chosen parameters:	105224					
Minimum DB seq length: 0						
Maximum DB seq length: 2000000000						
Dst-processing:	Minimum Match 0% Maximum Match 100% Listing first 45 summaries					
database :	Swissprot 40: *					
Pred.	No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.					
SUMMARIES						
8						
result No.	Score	Query	Match	Length	DB ID	Description
1	2462	99.8	461	1	TR1B_HUMAN	P02333 homo sapien
2	1512	61.3	474	1	TR1B_MOUSE	P25119 mus musculu
3	379.5	15.4	349	1	VC22_VARV	P30115 variola vir
4	360.5	14.6	326	1	VT2_MYXV	P29225 myxoma viru
5	341.5	13.8	435	1	TNR3_HUMAN	P36941 homo sapien
6	328	13.3	325	1	VT2_SFVK	P25543 shope fibro
7	317.5	12.9	277	1	TNR5_HUMAN	P52942 homo sapien
8	317	12.8	415	1	TNR3_MOUSE	P52284 mus musculu
9	305	12.4	616	1	TR1L_HUMAN	P93696 homo sapien
10	292.5	11.9	625	1	TR1L_MOUSE	Q33035 mus musculu
11	259	10.5	283	1	TR1A_HUMAN	Q93956 homo sapien
12	252.5	10.2	289	1	TNR5_MOUSE	P25121 mus musculu
13	251.5	10.2	416	1	TR16_CHICK	P18319 gallus galli
14	242.5	9.8	269	1	TNR5_BOVIN	Q28203 bos taurus
15	241	9.8	595	1	TNR8_HUMAN	P28308 homo sapien
16	229.5	9.3	271	1	TR1L_RAT	P17225 rattus norv
17	223.5	9.1	272	1	TNR4_MOUSE	P47741 mus musculu
18	217	8.8	277	1	TNR4_HUMAN	P34189 homo sapien
19	210	8.5	427	1	TR16_HUMAN	P01138 homo sapien
20	199	8.1	471	1	TR1A_BOVIN	Q19131 bos taurus
21	198	8.0	461	1	TRIA_PIG	P56555 sus scrofa
22	197	8.0	425	1	TR16_RAT	P07174 rattus norv
23	191.5	7.8	454	1	TRIA_MOUSE	P25118 mus musculu
24	185.5	7.5	461	1	TR1A_RAT	P22334 rattus norv
25	185	7.5	255	1	TNR9_HUMAN	Q07011 homo sapien
26	185	7.5	255	1	TNR9_MOUSE	P19438 homo sapien
27	183.5	7.4	455	1	TRIA_HUMAN	P14763 homo sapien
28	172	7.0	440	1	T10B_HUMAN	Q14798 h tumor nec
29	169.5	6.9	259	1	T10C_HUMAN	P06440 saccharomyces
30	166.5	6.7	1367	1	AMYH_YEAST	Q14162 homo sapien
31	153.5	6.2	830	1	SREC_HUMAN	P24446 mus musculu
32	152	6.2	323	1	TNR6_BOVIN	P24446 bos taurus
33	148	6.0	327	1	TNR6_MOUSE	RP SEQUENCE OF 23-40: 65-69; 136-141; 300-306 AND 346-362.

RX MEDLINE=91056048; PubMed=2173686;
RA Loeschner H.; Schlaeger E.J., Lahm H.-W., Pan Y.-C.E., Lesslauer W.,
RA Brochhaus M.;
RA "Purification and partial amino acid sequence analysis of two
RT distinct tumor necrosis factor receptors from HL60 cells.";
RT J. Biol. Chem. 265:20131-20138(1990).
[7] RN CHARACTERIZATION:
RP RX MEDLINE=93016040; PubMed=1328224;
RX Pennica D., Lam V.T., Mize N.K., Weber R.F., Lewis M., Fendly B.M.,
RA Lipari M.T., Goeddel D.V.;
RA "Biochemical properties of the 75-kDa tumor necrosis factor receptor.
RT Characterization of ligand binding, internalization, and receptor
RT phosphorylation";
RT J. Biol. Chem. 267:21172-21178(1992).
[8] RN X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS) OF 419-428 IN COMPLEX WITH
RP TRAF2.
RP MEDLINE=92021450; PubMed=10206649;
RX Park Y.C., Burkitt V., Villa A.R., Tong L., Wu H.;
RA "Structural basis for self-association and receptor recognition of
RT human TRAF2";
RL Nature 396:533-538(1999).
CC -1- FUNCTION: RECEPTOR FOR TNF-**N**PHA. HIGH AFFINITY FOR TNF-**N**ALPHA AND
CC APPROXIMATELY 5-FOLD LOWER AFFINITY FOR TNF-BETA.
CC -1- SUBCELLULAR LOCATION: TYPE I membrane protein.
CC -1- PTM: PHOSPHORYLATION: MAINLY ON SERINE RESIDUES WITH A VERY LOW
LEVEL ON THREONINE RESIDUES.
CC -1- PHARMACEUTICAL: Available under the name Embrel (Immunex and
Wyeth-Ayerst) used to treat moderate to severe rheumatoid
arthritis (RA). Embrel consist of the extracellular ligand-binding
portion of TNFR2 linked to an Immunoglobulin Fc chain. It binds to
TNF-alpha and blocks its interactions with receptors.
CC -1- SIMILARITY: CONTAINS 4 TNFR-CYS REPEATS.
CC -1- DATABASE: NAME=embrel; NOTE=CD guide CD120b entry;
CC WWW=<http://www.ncbi.nlm.nih.gov/prov/cd/cd120b.htm>.
CC -1- DATABASE: NAME=embrel; NOTE=Clinical information on Embrel;
CC WWW=<http://www.embrel.info.com/>.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
EMBL: M32315; AAA5929.1; -.
EMBL: M35577; AAA63362.1; -.
EMBL: U52165; AAC50322.1; -.
EMBL: U52156; AAC50322.1; JOINED.
EMBL: U52157; AAC50322.1; JOINED.
EMBL: U52158; AAC50322.1; JOINED.
EMBL: U52159; AAC50322.1; JOINED.
EMBL: U52160; AAC50322.1; JOINED.
EMBL: U52161; AAC50322.1; JOINED.
EMBL: U52162; AAC50322.1; JOINED.
EMBL: U52163; AAC50322.1; JOINED.
EMBL: U52164; AAC50322.1; JOINED.
EMBL: M55994; AAA36355.1; -.
DR PIR: A35336; A353356.
DR PIR: A36007; A36007.
DR PIR: A36475; A36475.
DR PIR: B335010; B335010.
DR PIR: A23666; A23666.
DR PDB: 1ca1; 12-APR-99.
MIM: 191191; -.
DR InterPro: IPR001368; TNFR_C6.
Pfam: PF00020; TNFR_C6; 4.
Prodom: PDO00771; TNFR_C6; 1.
SMART: SM00208; TNFR_C6; 4.
Prosite: PS50050; TNFR_NGFR_1; 2.
Prosite: PS50052; TNFR_NGFR_2; 4.
PDB: 1ca1; 12-APR-99.
MIM: 191191; -.
DR InterPro: IPR001368; TNFR_C6.

Receptor; Transmembrane; Glycoprotein; Repeat; Signal;		Pharmaceutical; Glycoprotein; Repeat; Signal;	
KW	KW	KW	KW
PHOSPHORYLATION	1	22	TUMOR NECROSIS FACTOR RECEPTOR 2 .
SIGNAL	1	461	EXTRACELLULAR (POTENTIAL).
CHAIN	23	257	POTENTIAL.
DONAIN	23	287	CYTOSOLIC (POTENTIAL).
TRANSIN	258	461	DISULFID .
TRANSIT	288	76	TNFRCYS 1 .
DOMAIN	39	118	TNFRCYS 2 .
REPEAT	77	162	TNFRCYS 3 .
REPEAT	119	201	TNFRCYS 4 .
REPEAT	163	53	BY SIMILARITY .
DISULFID	40	67	BY SIMILARITY .
DISULFID	54	75	BY SIMILARITY .
DISULFID	57	93	BY SIMILARITY .
DISULFID	78	110	BY SIMILARITY .
DISULFID	96	118	BY SIMILARITY .
DISULFID	100	126	BY SIMILARITY .
DISULFID	120	134	BY SIMILARITY .
DISULFID	137	161	BY SIMILARITY .
DISULFID	164	179	BY SIMILARITY .
CARBOHYD	171	171	N-LINKED (GLCNAC . . .) (POTENTIAL).
CARBOHYD	193	193	N-LINKED (GLCNAC . . .) (POTENTIAL).
CONFLICT	141	141	R > P (IN REF . 4).
CONFLICT	196	196	R > M (IN REF . 1 AND 3).
CONFLICT	363	363	A > T (IN REF . 4).
SEQUENCE	461 AA;	48316 MW;	603B580ECD67636F CRC64 ;
Query Match	99.8%	Score 2462;	DB 1; Length 461;
Best Local Similarity	99.8%	Pred. No. 1.	e-137;
Matches 460;	Conservative	0; Mismatches	1; Indels 0;
Qy	1	MAPVAVNALLAVGLEYWAHAHALPAQVAFPTPYAEPFGTCRLEYQDTAQMCSSKCCSKC	
Ddb	1	MAPVAVNALLAVGLEYWAHAHALPAQVAFPTPYAEPFGTCRLEYQDTAQMCSSKCCSKC	
Qy	61	QHAKVFCTKTSDTIVCDSCEDSTYTLQLNWWPECLSGSRCSSDOVETACTREONRICR	
Ddb	61	QHAKVFCTKTSDTIVCDSCEDSTYTLQLNWWPECLSGSRCSSDOVETACTRQNRICR	
Qy	121	RGWYCALSKOEGCRCLAPLRKGRCGPFGVARPGETTSVYVKCAPGTESNTSSTD	
Ddb	121	RGWYCALSKOEGCRCLAPLRKGRCGPFGVARPGETTSVYVKCAPGTFSNTSSTD	
Qy	181	PHQICNVTAIPGNASMDAVCTSTSPTRSMAPGAVHLPPVPSRSQHTOPTPESTAP	
Ddb	181	PHQICNVTAIPGNASRDVCTSTSPTRSMAPGAVHLPPVPSRSQHTOPTPESTAP	
Qy	241	FLLPMGPSSPAAEGSTGDALPYGLIVGTALGILLIGTVNCVMTQVKKKPLCLQRE	
Ddb	241	FLLPMGPSSPAAEGSTGDALPYGLIVGTALGILLIGTVNCVMTQVKKKPLCLQRE	
Qy	301	PHLPADKARGTQPEQKLILTAPSSSSLESSASALDRRAPTRNQDQAPGVYEASG	
Ddb	301	PHLPADKARGTQPEQKLILTAPSSSSLESSASALDRRAPTRNQDQAPGVYEASG	
Qy	361	ARASTGSSDSSPQGHGTQVNVTICIVNVCSSDHSSQQASSTMGDDSSPSESPK	
Ddb	361	ARASTGSSDSSPQGHGTQVNVTICIVNVCSSDHSSQQASSTMGDDSSPSESPK	
Qy	421	VPFSEKCAERSOLETPETLGLSTEKEPLPLGVPDAGMKPS 461	
Ddb	421	VPFSEKCAERSOLETPETLGLSTEKEPLPLGVPDAGMKPS 461	

DE Tumor necrosis factor receptor 2 precursor (TNFR-R2) (p75).
 GN TNFRSF1B OR TNFR2 OR TNFR-.
 OS Mus musculus (Mouse).
 OC Bokarukia; Metacara; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathia; Muridae; Murinae; Mus.
 RN NCBI_TAXID=10090;
 [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=91187885; PubMed=1849278;
 RA Lewis M., Partagis L.A., Lee A., Bennett G.L., Rice G.C.,
 RA Wong G.H., Chen E.Y., Goeddel D.V.;
 RT "Cloning and expression of cDNAs for two distinct murine tumor
 tumor necrosis factor receptors demonstrate one receptor is species
 specific.";
 RT proc. Natl. Acad. Sci. U.S.A. 88:2830-2834(1991).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=91246166; PubMed=1645445;
 RA Goodwin R.G., Anderson D., Jerry R., Davis T., Brannan C.I.,
 RA Copeland N.G., Jenkins N.A., Smith C.A.;
 RT "Molecular cloning and expression of the type 1 and type 2 murine
 receptors for tumor necrosis factor.";
 RL Mol. Cell. Biol. 11:3020-3026(1991).
 RN [3]
 RP SEQUENCE OF 1-26 FROM N.A.
 RC STRAIN=NOD;
 RA Jacob C.O., Liu J.;
 RL Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.
 RN [4]
 RP SEQUENCE OF 1-22 FROM N.A.
 RC TISSUE=Liver;
 RA Kissnerghash M., Fellowes R., Feldmann M., Chernajovsky Y.;
 RL Submitted (MAY-1995) to the EMBL/GenBank/DDBJ databases.
 CC -I- FUNCTION: RECEPTOR FOR TNF ALPH.
 CC -I- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -I- SIMILARITY: CONTAINS 4 TNFR-CYS REPEATS.

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CC EMBL: M60469; AAA39752; 1;
 DR EMBL: M59378; AAA40463; 1;
 DR EMBL: U39488; AAA85021; -;
 DR EMBL: X87128; CAA60618; 1;
 PIR: B38634; B38634.
 DR HSSP; P19438; IMCF.
 DR MGD; MGI:1314883; Tnfrsf1b.
 DR InterPro; IPR001368; TNFR_C6.
 DR Pfam; PF00020; TNFR_C6; 4.
 DR ProDom; PD000771; TNFR_C6; 1.
 DR SMART; SM00208; TNFR_4.
 DR PROSITE; PS00652; TNFR_NGFR_1; 2.
 DR PROSITE; PS50020; TNFR_NGFR_2; 3.
 DR Receptor; Transmembrane; Glycoprotein; Repeat; Signal.
 KW SIGNAL 1 22 TUMOR NECROSIS FACTOR RECEPTOR 2.
 FT CHAIN 23 474 EXTRACELLULAR (POTENTIAL).
 FT DOMAIN 23 258 POTENTIAL.
 FT DOMAIN 259 288 CYTOPLASMIC (POTENTIAL).
 FT REPEAT 289 474 TNFR-CYS 1.
 FT REPEAT 39 77 TNFR-CYS 2.
 FT REPEAT 78 119 TNFR-CYS 3.
 FT REPEAT 120 164 TNFR-CYS 4.
 FT REPEAT 165 203 TNFR-CYS 4.
 FT DISULFID 40 54 BY SIMILARITY.
 FT DISULFID 55 68 BY SIMILARITY.
 FT DISULFID 58 76 BY SIMILARITY.
 FT DISULFID 79 94 BY SIMILARITY.
 FT DISULFID 97 111 BY SIMILARITY.

FT DISULFID 101 119 BY SIMILARITY.
 FT DISULFID 121 127 BY SIMILARITY.
 FT DISULFID 136 145 BY SIMILARITY.
 FT DISULFID 139 163 BY SIMILARITY.
 FT DISULFID 166 181 BY SIMILARITY.
 FT CARBOHYD 69 69 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 195 195 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 474 AA; 50319 MW; 462BAE39BC4D6563 CRC64;

Query Match 61.3%; Score 1512; DB 1; Length 474;
 Best Local Similarity 63.0%; Pred. No. 6 3e-82;
 Matches 29; Conservative 50; Mismatches 114; Indels 8; Gaps 6;

QY 1 MAPYAVWAAALAVGLELWAAHALPAQAVATPYAPEPGSTCRLE-REYYDQTAQMCCSKCSP 59
 Db 1 MAPAALWALVLFQLWATGHTVPAQVVLTPYKPBPGYEQISQSYDRAQMCCKACP 60

QY 60 GQHAKVFCTKTSDFVCDSEDSITQTLQWWNPECLSGSRCSSDQVEQACTREONRICT 119
 Db 61 GOVVKHFCAKTSDFVCADEASMYTQVWNQFRTCSCSSCTDQVEIRACTKQNRVCA 120

QY 120 CRPGWYCALSKOEG-CRLCAPLKRKCRPGFGVARPGTETSDVCKPCAPGTFSNTTSSTDI 178
 Db 121 CEAGRYCALKTHSGSCRCQMRSLSKCGPVGAASSRAPNGNLVLCAPGTFSDTTSSTDV 180

QY 179 CRPHQICNVVAIPGNASMDAVCTSTSPTSRSMAPGAVHLQPVSTRSQHQNPTEPESTAPS 238
 Db 181 CRPRICSLIAIPGNASTDAVCAPEPTLSAIPRTLVSSQPEPTRSQLDQEPRGSPQT- 239

QY 239 TSFLJPMGSPPAEGST-GDFPALPVGLIVGVTAGLILLIGVVNCVIMTVQKKPKLQRE 297
 Db 240 -SILTSIGSTPILEQSTKGGTISPLIGLVGVTSLQMLGLVNCLTIVQRKKKPSCLQRD 298

QY 298 AKVPHLPADPKARGTQGPQOHLLTAPSSSSLESSASALDRAPTRNPOAPEV-EAS 356
 Db 299 AKVPHVPDKSODAVGLEQOHLLTAPSSSSLESSASAGDRAPRGPQHHPQARYMAEAQ 358

QY 357 GAGEPARASTGSSDGPQHGTQVNTCTVNCVSSDDHSSCQSSASSTMGDTDSSPSES 416
 Db 359 GFOZARASRISDSSHGSIGTHAVNTCTVNCVSSDDHSSCQSSATVGDPAKPSASP 418

QY 417 KDEQVPFSEKEAFRSQLETPETLGGTSEEKPLPLGVDPDGMKPS 461
 Db 419 KDEQVPFSEKEAFRSQLETPETLGGTSEEKPLPLGVDPDGMKPS 461

RESULT 3
 VC22_VARV STANDARD; PRT; 349 AA.
 ID VC22_VARV
 AC P31015;
 DT 01-FEB-1994 (Rel. 28, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Protein C22/B28 homolog.
 GN G4R.
 OS Variola virus.
 OC Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
 OC Orthopoxvirus.
 OC NCBI_TaxID=10255;
 OX RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=INDIA-1967 / ISOLATE IND3;
 RX MEDLINE=93202281; PubMed=8384129;
 RA Shchelkunov S.N., Blinov V.M., Sandakhabiev L.S.;
 RT "Genes of variola and vaccinia viruses necessary to overcome the host
 protective mechanisms";
 RL FEBS Lett. 319:80-83 (1993).
 CC -I- SIMILARITY: CONTAINS 2 TNFR-CYS REPEATS.

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CC or send an email to license@ilsb-sib.ch).

Query Best Match	15.4%	Score 379.5	DB 1:	Length 349;
Best Local Similarity	37.6%	No. 8.1e-18		
Matches 79;	Conservative 24;	Pred. No. 8.1e-18		
		Mismatches 86;	Indels 21;	Caps 7;

	FT	CARBHYD	66	66	N-LINED	(POTENTIAL)
	FT	CARBHYD	181	181	N-LINED	(POTENTIAL)
	FT	CARBHYD	205	205	N-LINED	(POTENTIAL)
	FT	CARBHYD	238	238	N-LINED	(POTENTIAL)

31	PYAPEGPGSTCHLREYDQATNCSCSPGHAKVETKTSCTDVSCEUSNTYOTLWNW
24	PYTP-ENKGCKDTEY-KRHNLCCLSCPPGYASRLCDSTNTQCPGCGSTFTSRNNHL

Query Match Similarity Score 360.5; DB 1; Length 326;
Best local Similarity Pred No. 9 Re-15;

PACLSNGRCNSQNOVETRSCTNTHRNICECSPGYCILKGSQCKACVSOTRCGIGYGV 140
PACLSNGRCNSQNOVETRSCTNTHRNICECSPGYCILKGSQCKACVSOTRCGIGYGV 140

```

141 -GHTSVGDVTCSPCGRTGYTSSADKCEP-----VPNNTFNYDVEITLYPVNDT 191
204 SPTRSNAPGAVH -LPQPVSTRSQHTQPTP 231

```

RESULTS 4

137 -GHTPTGDVLTCKPRYTSDAVSSTCT- -SSFPNYISVFENLYPVNDTSCTTA--- 189

VT2-MTAVL PRT; 326 AA.
 P29825 (Rel. 25, Last sequence update)
 01-APR-1993 (Rel. 25, Created)
 01-APR-1993 (Rel. 25, Standard)

Db 190 -GPNEVVKTSEFSVTLNHTCDP 211

Tumor necrosis factor soluble receptor precursor (Protein T2).
T2.
Myxoma virus (strain Lausanne).
Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
Tecumseh collection.

SEQUENCE FROM N.A.
MEDLINE=91335766 ; PubMed=1651597 ;
Upton C., Macen J.L., Schreiber M., McFadden G.;
NCBI_TAXID=31530;

DE Lymphotoxin-beta receptor Precursor (Tumor necrosis factor receptor 2 related protein) (Tumor necrosis factor C receptor).
 DE LtBR OR TNFCR OR TNFRSF3.
 Homo sapiens (Human).

necrosis factor receptor gene family that contributes to viral virulence." Virology 184: 370-382 (1991).
-: FUNCTION: BINDS TO TNF-ALPHA AND BETA. PROBABLY PREVENTS TNF TO REACH CERTAIN TARGETS AND THEREFORE DAMPENS INFLAMMATION.

- ! - ANIMALITY : CONTAINS 4 TNEF-CYS REPEATS.
- ! - SIMILARITY : CONTAINS 4 TNEF-CYS REPEATS.

RX MEADINS M., Chaffanet M., Cassiman J.-J., den Berghe H., Marynen P.; RA BAUDENS M., Chaffanet M., Cassiman J.-J., den Berghe H., Marynen P.; RT RT "Construction and evaluation of a hcDNA library of human 12p transcribed sequences derived from a somatic cell hybrid." ; RL Genomics 16: 214-218 (1993).

FT	CARBHYD	205	205	N-LINKED (GLCNAC. . .) (POTENTIAL).	6
FT	CARBHYD	238	238	N-LINKED (GLCNAC. . .) (POTENTIAL).	
SQ	SEQUENCE	325 AA;	35132 MW;	81053039198A7IE CRC64;	
Query Match Score	13.3%	Score 328;	DB 1;	Length 325;	
Best Local Similarity	36.9%	Pred. No.	7.8c-13;		
Matches 66; Conservative	28;	Mismatches	71;	Indels	14;
Matches	66;			Gaps	
Query	31	PYAPEGSTCRLREYYDQAAQMCCSKCSKGPOHAKVFCTKTSDFYCDSCEDSTYQTLWNW	90		
Db	20	PYSSNQGK-GGHDY--ENDGLCCASCHPGYASRLICGGPSNTVCSPCEDTETATNHA	76		
Qy	91	PECLSGCSRSSDQVETOACTREQNRICTRPGWYCALSKOEGCRLLCAPLKRCPDFGVA	150		
Db	77	PACVSRGPCTGHLSSEQCDRTHRVNCSTGNCLKGONGCRICAPQTKCPAGYGV	136		
Qy	151	RPGTTSDTCKPCAPGTFNTTSIDCIPHQICNVAI-----PGNAMNDAVCTTS	204		
Db	137	-GHTRAGDTLCEKCPHTYSDSLSPTERCGTS--FNYISVGFLNPVN--ETSCTTA	189		
RESULT	7				
TNRS_HUMAN	ID	TNRS_HUMAN	STANDARD;	PRT;	277 AA.
AC	P25542;				
DT	01-MAY-1992	(Rel. 22. Created)			
DT	01-MAY-1992	(Rel. 22. Last sequence update)			
DT	01-MAR-2002	(Rel. 41. Last annotation update)			
DE	Tumor necrosis factor receptor superfamily member 5 precursor				
DE	(CD40L receptor) (B-cell surface antigen CD40) (Bp50) (CDw40).				
GN	TNFRSF5 OR CD40.				
OS	Home sapiens (Human).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.				
OC	NCBI_TaxID=9606;				
OX	[1]				
RN	RP	SEQUENCE FROM N.A.			
RX	MEDLINE=>9356608; PubMed=2475341;				
RA	Stamenkovic I., Clark E.A., Seed B;				
RT	"A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas.";				
RT	EMBO J. 8:1403-1410(1989).				
RL	[2]				
RN	SEQUENCE FROM N.A.				
RA	Delikasas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R., Jones M., Starides G., Almeida J.P., Babbage A.K., Baugley C.L., Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., Beasley O.P., Bird C.P., Blakely S.E., Bridgeman A.M., Brown A.J., Buck D., Burrell W., Butler A.P., Carter C., Carter N.P., Cheung S., Cobley V.E., Clark G., Clark L.N., Clark S.Y., Cleee C.M., Coulson A., Coville G.J., Deadman R., Connor R., Corby N.R., Ellington A.G., Frankland J.A., Fraser A., French L., Garner P., Graham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E., Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J., Huckle A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D., Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S., Leivaslaiho M.H., Leversha M., Lloyd C., Lloyd D.M., Lovell J.D., March V.L., Martin S.L., McConnaughay C.J., McMay K., McMurray A.A., Moline S., Misri D., Moore M.J.F., Mullikin J.C., Nickerson T., Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.T., Phillips B.J.C.T., Prathalingam S.R., Plumb R.W., Ramsay H., Sims S., Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E., Swann M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A., Tracey A., Tricoms A.C., Vaudin M., Wall M., Wallis J.M., Whitehead S.L., Whittaker P., Willey D.L., Williams L., Williams S.A., Wilmung L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S., Rogers J.;				
RT	"The DNA sequence and comparative analysis of human chromosome 20." Nature 414:865-871(2001).				
RL	[3]				

Qy	78	CEDSYTQLANWVPC-----LCGCSRQSSDQVETOACTCREQNRCITCRGWYCALSK 130
Db	62	CGESSELDIWNRETICHQHKYCDDPILGLRVQ----OKGTSETDTCTEEGWHCT--- 112
Qy	131	QEGRCLICAPLRKCRGEFGYARPGTTSDFDLYCKPCAGPTFSNTSTSSTDICRPHQICN---- 186
Db	113	SEACSCVLRSCLSSGFYKQIAVGSDTICPVGFFSVSSFEKCHPWTSCETKDL 172
Qy	187	VVAIPGNASMDAYCTSTSPTRSMAGAVHLPQPVSSTRSQHTQPTDEPSTAPSTSFILLPMG 246
Db	173	VVQQAGTNKTNDVVCGPQDRRLR----- 195
Qy	247	PSPPNEGSTDDFALPGVLIGVTAIGLLLIGVNVNVCIMTOYRKKKDCLQREAKVPH---- 302
Db	196	-----VVIPIFGILFLILV-----VFIKKVAKP----TNKAPHPKQE 232
Qy	303	-----LPAD-KARGTQGPEQHQLITAPSSSSSLEASALDRR 341
Db	233	PQEINFPDDLGNSNTAAFPQETLHGCPVTQEDGKESRISVQERQ 277
RESULT 8		
TNR3_MOUSE		
ID	TNR3_MOUSE	STANDARD;
AC	P50264;	PRTE; 415 AA.
DT	01-OCT-1986 (Rel. 34, Created)	
DT	01-OCT-1986 (Rel. 34, Last sequence update)	
DT	16-OCT-2001 (Rel. 40, Last annotation update)	
DE	Lymphotoxin-alpha receptor precursor.	
GN	LTBPR OR TNFCR OR TNFRSF3.	
OS	Mus musculus (Mouse).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus.	
OX	NCBI_TAXID=10090;	
RN	[1]	
RP	SEQUENCE FROM N.A.	
RC	STRAIN=CVB; TISSUE=lung;	
RX	MEDLINE=9072804; PubMed=7594541;	
RA	Force W.R., Walter B.N., Hession C., Tizard R., Kozak C.A.,	
RA	Browning J.L., Ware C.F.;	
RT	"Mouse lymphotoxin-alpha receptor. Molecular genetics, ligand binding, and expression."	
RL	J. Immunol. 155:5280-5288(1995).	
RN	[2]	
RP	SEQUENCE FROM N.A.	
RX	MEDLINE=96163885; PubMed=8586432;	
RA	Nakanura T., Tashiro K., Nazarea M., Nakano T., Sasayama S., Honjo T.	
RT	"The murine lymphotoxin-beta receptor cDNA: isolation by the signal sequence trap and chromosomal mapping."	
RL	Genomics 30:312-319(1995).	
CC	1- FUNCTION: RECEPTOR FOR THE LYMPHOTOXIN-BETA. POSSIBLE FUNCTION IN IMMUNE DEVELOPMENT.	
CC	-1- SUBCELLULAR LOCATION: Type I membrane protein.	
CC	-1- SIMILARITY: CONTAINS 4 TNFR-CYS REPEATS.	
CC	-----	
CC	This SWISS-PROT entry is copytight. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation at the European Bioinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.1sb-sib.ch/annos or send an email to license@1sb-sib.ch).	
CC	-----	
DR	EMBL; U29173; AAA68364.1; -;	
DR	EMBL; L38023; ARB00846.1; -;	
DR	EMBL; U30198; AAA81334.1; -;	
DR	HSSP; P25942; ICDF.	
DR	MGD; MTG1:104875; Ltbf.	
DR	Intrepro; IPR001368; TNFR_C6; 3.	
DR	Pfam; PF000771; TNFR_C6.	
DR	ProDom; PRO0020; TNFR_C6.	
DR	SMART; SMD00208; TNFR_C6.	
DR	SMART; SMD00208; TNFR_C6.	

DR	PROSITE; PS00652; TNFR_NGFR_1;	2	
DR	PROSITE; PS50050; TNFR_NGFR_2;	3	
KW	Receptor; Transmembrane; Glycoprotein; Repeat; Signal.		
FT	SIGNAL 1 30		
FT	CHAIN 31 415 LUMPHOTOXIN-BETA RECEPTOR.		
FT	DOMAIN 31 223 EXTRACELLULAR (POTENTIAL).		
FT	TRANSMEM 224 244 POTENTIAL.		
FT	DOMAIN 245 415 CYTOSMERIC (POTENTIAL).		
FT	REPEAT 42 81 TNFR-CYS 1.		
FT	REPEAT 82 124 TNFR-CYS 2.		
FT	REPEAT 125 170 TNFR-CYS 3.		
FT	REPEAT 171 213 TNFR-CYS 4.		
FT	DISULFID 43 58 BY SIMILARITY.		
FT	DISULFID 59 72 BY SIMILARITY.		
FT	DISULFID 62 80 BY SIMILARITY.		
FT	DISULFID 83 98 BY SIMILARITY.		
FT	DISULFID 101 116 BY SIMILARITY.		
FT	DISULFID 104 124 BY SIMILARITY.		
FT	DISULFID 126 132 BY SIMILARITY.		
FT	DISULFID 139 150 BY SIMILARITY.		
FT	DISULFID 142 169 BY SIMILARITY.		
FT	DISULFID 172 187 BY SIMILARITY.		
FT	CARBONYD 40 40 N-LINKED (GLCNAC. . .) (POTENTIAL).		
FT	CARBONYD 179 179 N-LINKED (GLCNAC. . .) (POTENTIAL).		
SQ	SEQUENCE 415 AA; 44956 MW; 29B326A566AEF661 CRC64;		
		22:	
	Query Match Score 12.88; Best Local Similarity 24.9%; Matches 119;保守性 50; Mismatches 166; Indels 142; Gaps 22;		
Qy	7 WAALAVGLELWAAHHALPAQVAFPTYAPEPGSTC--RELEYYDQTAQMCCSKCPGQHAK 64		
Db	14 WGPPLIGLSSLVVA-SQPQLV-PPVRIE-NQTCWDQDKKEYYPMMHDVCCSRCPGEFYV 69		
Qy	65 VFCFKTSDTYCDSCEDESTYQTLWNWYPECLSGCSRQSSDQV----ETQACTREONRICKT 120		
Db	70 AVCRSRSDQTIVCKTCHPINSYNHEWHHLSTCQLQR--PCDIVLGEEEVAPCTSDRAECCR 126		
Qy	121 RPGWYCALSKOEGCRICAPLRKCRPGFGVARQGTET-----SDVWCKPCAGTFSNT 172		
Db	127 QPGMSCVYLDNE-CVHCEEER----LYLCQPTEAEVTEIDMTDVNCVCPKGHEONT 180		
Qy	173 TSTDICRPHICIN---WVAIPQNSMDAVYCTSTSPTRSMAFGAVHLLPQPVSRSQHTQ 228		
Db	181 SSPRARQCPTHRCIOTGLVEAAPGTSYSDTICKN-----214		
Qy	229 PTPEPSTAPSTPSFLPMGSPSPPAEGSTGDFALPVGLIYGVTALGLLIQGVNNCYTM---- 284		
Db	215 -PPEPGAMLLIAITLSS-----VFLLEFLFTVLAQAMRMRHPS 249		
Qy	285 ----TQVKK----KPLCLQREAKVPHLP-----ADKARGTQGPQQHLLIT 322		
Db	250 LCKRKGTLKKRHPGEESPPCPAPRAD----PHFDIAEPLPLPMSDLSPPSPAGPP----T 302		
Qy	323 APSSSSSSLESSAALDRRAPTRNQPAQVEASGAGEBARASTGSSDSSPQQGHGTQVNVT 382		
Db	303 APSLEEVLQSQSPLV-----QARELELPGEHQVAGAN---GHIYGGSVT 348		
Qy	383 CIVNYCSSSDHSQCSQQASSTMGDTSSPSESPKDEQVPE-SKEIECAFERSQLETP 437		
Db	349 VTGNIYIYN-----GPVLTGGT-RGPQDPAPPPEPPYPPPEGAEGPSSELSTP 394		
RESULT	9		
TR11_HUMAN	STANDARD;		
ID	TR11_HUMAN	PRT;	616 AA.
AC	Q9Y606;		
DT	16-OCT-2001 (Rel. 40, Created)		
DT	16-OCT-2001 (Rel. 40, Last sequence update)		
DT	01-MAR-2002 (Rel. 41, Last annotation update)		
DE	Tumor necrosis factor receptor superfamily member 11A precursor		
DE	(Receptor activator of NF- κ B) (Osteoclast differentiation factor)		

receptor) (ODFR).
TNFRSF1A OR RANK.
 Homo sapiens (Human).
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NCBI_TAXID=9606; [1]

SEQUENCE FROM N A.
 TISSUE=Dendritic cell;
 MEDLINE=99032977; PubMed=9367155;
 Anderson D.M., Maraskovsky E., Billingsley W.L., Dougall W.C.,
 Tometsko M.E., Roux E.R., Tepe M.C., Dubose R.F., Cosman D.,
 Galibert L.; "A homologue of the TNF receptor and its ligand enhance T-cell growth
 and dendritic-cell function.";
 Nature 390:175-179(1997). [2]

FUNCTION.
 MEDLINE=9807247; PubMed=9878548;
 Kinoshita N., Kinoshita M., Yamaguchi K., Shima N., Yasuda H., Yano K.,
 Morinaga T., Higashio K.; "RANK is the essential signaling receptor for osteoclast
 differentiation factor in osteoclastogenesis.";
 Biochem. Biophys. Res. Commun. 255:395-400(1998). [3]

VARIANT FEO 16-L--L-21 DUPL, VARIANT PDB2 13-A--L-21 DUPL, AND VARIANT
 V-192.
 MEDLINE=20082806; PubMed=1615125;
 Hughes A.E., Raiston S.H., Marken J., Bell C., MacPherson H.,
 Wallace R.G.H., van Huyl W., Whyte M.P., Nakatsu K., Hovy L.,
 Anderson D.M.; "Mutations in TNFRSF1A, affecting the signal peptide of RANK, cause
 familial expansile osteolysis.";
 Nat. Genet. 24:45-48(2000). [4]

-1 - FUNCTION: RECEPTOR FOR RANK LIGAND (RANKL; ALSO KNOWN AS
 OSTEOCLAST DIFFERENTIATION FACTOR OR ODF); ESSENTIAL FOR RANKL-
 MEDIATED OSTEOCLASTOGENESIS INVOLVED IN THE REGULATION OF
 INTERCELLULAR LOCATION: T-CELLS AND DENDRITIC CELLS.

-1 - TISSUE SPECIFICITY: TYPE I MEMBRANE PROTEIN (POTENTIAL).

-1 - SUBCELLULAR LOCATION: SKELETAL MUSCLE, THYMUS, LIVER, COLON, SMALL INTESTINE AND ADRENAL
 GLAND.

-1 - DISEASE/DEFECTS: DEFECTS IN TNFRSF1A ARE THE CAUSE OF FAMILIAL EXPANSILE
 OSTEOLYSIS (FEO), A RARE AUTOSOMAL DOMINANT BONE DISORDER
 CHARACTERIZED BY FOCAL AREAS OF INCREASED BONE REMODELLING. THE
 OSTEOLYTIC LESIONS DEVELOP USUALLY IN THE LONG BONES DURING EARLY
 ADULTHOOD. FEO IS OFTEN ASSOCIATED WITH EARLY ONSET DEAFNESS AND
 LOSS OF DENTITION.

-1 - DISEASE/DEFECTS: DEFECTS IN TNFRSF1A ARE A CAUSE OF FAMILIAL PAGET
 DISEASE OF BONE, ALSO KNOWN AS PAGET DISEASE OF BONE 2 (PDB2). IT
 IS A BONE REMODELLING DISORDER WITH CLINICAL SIMILARITIES TO FEO.
 UNLIKE FEO, HOWEVER, Affected INDIVIDUALS HAVE INVOLVEMENT OF THE
 AXIAL SKELETON WITH LESIONS IN THE SPINE, PELVIS AND SKULL.

-1 - SIMILARITY: CONTAINS 4 TNFRCS REPEATS.

EMBL: AF018253; AAB86609.1; -.
 HSSP: P25942; ICDF.
 MIM: 603459; -.
 MIM: 174810; -.
 MIM: 602080; -.
 InterPro: IPR01368; TNFR_c6.
 Pfam: PF00020; TNFR_c6; 4.
 Prodrom: PD000771; TNFR_c6; 1.
 SMART: JAO0028; TNFR_c4.
 PROSITE: PS00652; TNFR_NGFR_1; 1.

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 entities requires a license agreement (see <http://www.isb-sib.ch/announce>) or send an email to license@isb-sib.ch).

Db	463	SPKRGLPOCAYGNGLPP	480	: : : : :	REPEAT	115	152	TNFR-CYS 3.
RESULT	10				REPEAT	155	195	TNFR-CYS 4.
ID	TR1_MOUSE	STANDARD;	PRT;	625 AA.	DISULFID	35	47	BY SIMILARITY.
AC	03505;				DISULFID	48	61	BY SIMILARITY.
ID	TR1_MOUSE	(Rel. 40, Created)			DISULFID	51	69	BY SIMILARITY.
AC	16-OCT-2001	(Rel. 40, Last sequence update)			DISULFID	72	87	BY SIMILARITY.
ID	TR1_MOUSE	(Rel. 41, Last annotation update)			DISULFID	93	113	BY SIMILARITY.
AC	16-OCT-2001	(Rel. 41, Last annotation update)			DISULFID	115	128	BY SIMILARITY.
ID	TR1_MOUSE	(Rel. 41, Last annotation update)			DISULFID	134	152	BY SIMILARITY.
DE	Tumor necrosis factor receptor superfamily member 11A precursor (Receptor activator of NF-KB) (Osteoclast differentiation factor receptor) (ODFR).				CARBONID	106	106	N-LINKED (GLCNAC. . .) (POTENTIAL).
DE	OS MUSCULUS (Mouse); Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus; NCBI_TAXID=10090; RN [1]				CARBONID	175	175	N-LINKED (GLCNAC. . .) (POTENTIAL).
DE	FUNCTION: TNFRSF1A OR RANK.				SEQUENCE	625 AA;	66621 MW;	F8C1872E99511D8E CRC64;
DR	MUS MUSCULUS (Mouse); Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus; NCBI_TAXID=10090; RN [1]				Score	292.5;	DB 1;	Length 625;
DR	TISSUE=Fetal liver; MEDLINE=98032977; PubMed=9367155;				Best Local Similarity	23.1%;	Precl. No. 1.7e-10;	
DR	Anderson D.M., Mariskovsky E., Billingsley W.L., Dougall W.C., Tometsko M.E., Roux E.R., Teepe M.C., Dubose R.F., Cosman D., Galibert L.; "A homologue of the TNF receptor and its ligand enhance T-cell growth and dendritic-cell function"; Nature 390:175-179 (1997).				Matches	123;	Mismatches 197;	Gaps 22;
DR	FUNCTION: MEDLNE=99097247; PubMed=9878548;				Query	23	LPAQVAPTYAPEPGSTORLREYYDQTQMCCSKCSPQHAKVFCRKTSPTVCDSCEDST	82
DR	RA				Db	23	VPLQVTLQVTPP-----CTQERHYEHLGR-CCSRCEPKYLSKCTPVSDFSVCLPCGDE	76
DR	YQLWNWVPECLSGSRSSDQ-----VETQACTREQRNITCGRPQWYCALSKQEQESRCLCAPL 140				Qy	83	YQLWNWVPECLSGSRSSDQ-----VETQACTREQRNITCGRPQWYCALSKQEQESRCLCAPL 140	
DR	RA				Db	77	YLDTWNEDBKCL-LHKVCDAGALVADPGNHTAPRROACTAGYHW----NSDCECCRNN 131	
DR	RA				Qy	141	RKCRCGFVGARPGTETSDVYCKPCAPGTESNTSSTOICRPHICNVW----AIPGNASM 196	
DR	RT				Db	132	TECAPGFGAQHPLQNLNDTVCPCLLGFSDVSYSTDKPKWTNCFLGKLEAHQGTIES 191	
DR	RT				Qy	197	DAVCTSTSPTSTRMAPGVHLQPQPVTSQQHTQPTPESTAPSTSFLLEMGPSPPAEGSTG 256	
DR	RN [2]				Db	192	DVVCSSSMTLR-----RPKEAQAYLPSLIVL-----219	
DR	RP				Qy	257	DFALPVSLIVGYTAGLILIGV-----VN--CVIMTQVKKKP-----291	
DR	RA				Db	220	-----LFIISVVVVAAIIFGYYYRKGGKALTANLWNWNDASSLSSNKESSEGDRCAGS 272	
DR	RA				Qy	292	-----LCLOREAVKPHLPDKARGTOQPFQHLLITAPSSSSLESSSS-336	
DR	RA				Db	273	HSATSSSQEVCEGILIMTREEKM-----VCAAGPWAERDSITE 323	
DR	RA				Qy	337	-----ALDRRAPTRNQFOAQPVEASGEARASTGSSDSSPGHGTQVNVTCLVN 386	
DR	RA				Db	324	TLVSEVETOGLDSRKIPTEDYEYDRPSOPSTGSLLLIQGSRSKIPPEPLEV-----376	
DR	RA				Qy	387	VCSSSDHSQSOSQSSTMGD-----TDSSPSESP-----DEQVPF---S 424	
DR	RA				Db	377	-GENDSLSQLCPTGTTESTVDSBGCDFTEPPSRDTDSMPSPERHLTKEEGDSCSLPWWVSS 434	
DR	RA				Qy	425	KEECAFRSQLERP-----ETLGSLSTEKEPLP-----LGVP-----DAGMKP 4.60	
DR	RA				Db	435	NSTDGVTGSGNTPGEDHEPEPSLKLCPPLPQCAYSMFSEAAASMAEAQGVRP 487	
EMBL	Af019046; Af086810; -.				RESULT	11		
DR	HSSP; P25942; 1CDFF				TR1_HUMAN			
DR	MGD; MGDR11314991; Mfrfs11a				ID	TR1_HUMAN	STANDARD;	
DR	InterPro; IPR001368; TNFR_C6.				AC	092956; O9UN65;	PRP;	283 AA.
DR	Pfam; PF00020; TNFR_C6; 3;				DT	16-OCT-2001 (Rel. 40, Created)		
DR	ProDom; PD00771; TNFR_C6; 1.				DT	16-OCT-2001 (Rel. 40, Last sequence update)		
DR	SMART; SM00208; TNFR_C6; 4.				DT	16-OCT-2001 (Rel. 40, Last annotation update)		
DR	PROSITE; PS00052; TNFR_NGFR_1; 1.				DE	Tumor necrosis factor receptor superfamily member 14 precursor DE (TR2).		
DR	KW				DE	(Herpesvirus entry mediator)		
DR	PROSITE; PS00050; TNFR_NGFR_2; 1.				GN	TNFRSF1A OR HVEM.		
FT	FT SIGNAL_1				OS	Homo sapiens (Human).		
FT	FT CHAIN_31				OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
FT	FT DOMAIN_31				OC	NCBI_TaxID=9606;		
FT	FT TRANSMEM_215				RN	[1]		
FT	FT DOMAIN_235				RP	SEQUENCE FROM N.A.		
FT	FT REPEAT_35				RC	TISSUE=Cervical adenocarcinoma;		
FT	FT REPEAT_72							

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CC -1- SIMILARITY: CONTAINS 4 TNFR-CYS REPEATS.

CC -1- TISSUE=OSTEOCLASTOGENESIS. INVOLVED IN THE REGULATION OF INTERACTIONS BETWEEN T-CELLS AND DENDRITIC CELLS.

CC -1- SUBCELLULAR LOCATION: TYPE I membrane protein (Potential).

CC -1- TISSUE SPECIFICITY: Ubiquitous expression with high levels in trabecular bone, thymus, small intestine, lung, brain and kidney.

CC -1- WEAKLY EXPRESSED IN SPLEEN AND BONE MARROW.

CC -1- SIMILARITY: CONTAINS 4 TNFR-CYS REPEATS.

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CC EMBL: Af019046; Af086810; -.

CC DR HSSP; P25942; 1CDFF

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

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CC FT REPEAT_72

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

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CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

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CC FT REPEAT_35

CC FT REPEAT_72

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

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CC FT CHAIN_31

CC FT DOMAIN_31

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CC FT REPEAT_72

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

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CC FT REPEAT_72

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

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CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

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CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

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CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

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CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TNFR_C6; 1.

CC DR SMART; SM00208; TNFR_C6; 4.

CC DR PROSITE; PS00052; TNFR_NGFR_1; 1.

CC DR PROSITE; PS00050; TNFR_NGFR_2; 1.

CC KW TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 11A.

CC FT SIGNAL_1

CC FT CHAIN_31

CC FT DOMAIN_31

CC FT TRANSMEM_215

CC FT DOMAIN_235

CC FT REPEAT_35

CC FT REPEAT_72

CC DR MGD; MGDR11314991; Mfrfs11a

CC DR InterPro; IPR001368; TNFR_C6.

CC DR Pfam; PF00020; TNFR_C6; 3;

CC DR ProDom; PD00771; TN

RX MEDLINE=97053782; PubMed=8898196;	Matches 59;	Conservative 23;	Mismatches 76;	Indels 22;	Gaps 6;
RA Montgomery R.I., Warner M.S., Lum B.J., Spear P.G.;					
RT "Herpes simplex virus-1 entry into cells mediated by a novel member of the TNF/NGF receptor family.";					
RL Cell 87:427-436(1996).					
[2]					
RN					
RX					
SEQUENCE FROM N.A.					
RELINE=97306316; PubMed=9162061;					
RA Kwon B.S., Tan K.B., Ni J., Oh K.-O., Lee Z.H., Kim K.K., Kim Y.-J.,					
WA Wang S., Gentz R., Yu G.-L., Harrop J., Lyn S.D., Silverman C.,					
RA Porter G., Truneh A., Young P.R.,					
RT "A newly identified member of the tumor necrosis factor receptor superfamily with a wide tissue distribution and involvement in lymphocyte activation."					
RL J. Biol. Chem. 272:14272-14276(1997).					
RN [3]					
RP					
SEQUENCE FROM N.A.					
RA Zhang W., Wan T., Cao X.,					
RL Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.					
CC -1- FUNCTION: RECEPTOR FOR TNFSF14. INVOLVED IN LYMPHOCYTE ACTIVATION.					
CC PLAYS AN IMPORTANT ROLE IN HSV PATHOGENESIS BECAUSE IT ENHANCED					
CC THE ENTRY OF SEVERAL WILDTYPE HSV STRAINS OF BOTH SEROTYPES INTO					
CHO CELLS, AND MEDIATED HSV ENTRY INTO ACTIVATED HUMAN T CELLS.					
CC -1- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN (Probable).					
CC TISSUE SPECIFICITY: WIDELY EXPRESSED, WITH THE HIGHEST EXPRESSION					
CC IN LUNG, SPLEEN, AND THYMUS.					
CC -1- SIMILARITY: CONTAINS 3 TNFR-CYS REPEATS.					
CC					
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -					
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CC modification and this statement is not removed. Usage by and for commercial					
CC entities requires a license agreement (see http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).					
CC					
DR U70321; AAB85354..1..;					
DR EMBL; U81232; AAD00505..1..;					
DR EMBL; AF153978; AAF75588..1..;					
DR HSSP; P25942; ICDF.					
DR InterPro: IPIR001368..; TNFR_c6..					
DR Pfam; PF00020; TNFR_c6..					
DR ProDom; PD00071; TNFR_c6..					
DR SMART; SM00208; TNFR..					
DR PROSITE; PS0052; TNFR_NGFR_1..;					
DR PROSITE; PS50050..; TNFR_NGFR_2..;					
KW Receptor; Transmembrane; Glycoprotein; Repeat; Signal.					
FT SIGNAL 1 38					
FT CHAIN 39 283					
FT TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY MEMBER 14.					
FT EXTRACELLULAR (POTENTIAL).					
FT DOMAIN 39 202					
FT TRANSMEM 203 223					
FT DOMAIN 224 283					
FT REPEAT 42 75					
FT REPEAT 78 119					
FT REPEAT 121 162					
FT DISULFID 42 53					
FT DISULFID 54 67					
FT DISULFID 57 75					
FT DISULFID 78 93					
FT DISULFID 96 111					
FT DISULFID 99 119					
FT DISULFID 121 127					
FT DISULFID 138 162					
FT CARBOHYD 110 110					
FT CARBOHYD 173 173					
FT CONFLICT 17 17		K -> R (IN REF. 1)			
FT SEQUENCE 283 AA; 30392 MW;		46xE13CC70242C1 CRC64;			
SQ					
Query Match 10.5%	Score 259;	DB 1;	Length 283;		
Best Local Similarity 32.8%	Pred. No. 7.4e-09;				

DR	PROSTATE;	PS00652;	TNFR-NGFR_1;	1.
DR	PROSTATE;	PS505050;	TNFR-NGFR_2;	4.
KW	Receptor;	B-cell;	Glycoprotein;	Transmembrane;
KW	SIGNAL	1	POTENTIAL.	Repeat; Signal.
CHAIN	20	289	TUMOR NECROSIS FACTOR RECEPTOR	
	DOMAIN	20	193	SUPERFAMILY MEMBER 5.
	TRANSEM	194	215	EXTRACELLULAR (POTENTIAL).
	DOMAIN	216	289	POTENTIAL.
	REPEAT	25	60	CYTOSMIC (POTENTIAL).
	REPEAT	61	103	TNFR-CYS 1.
	REPEAT	104	144	TNFR-CYS 2.
	REPEAT	145	187	TNFR-CYS 3.
	DISULFID	26	37	TNFR-CYS 4.
	DISULFID	38	51	BY SIMILARITY.
	DISULFID	41	59	BY SIMILARITY.
	DISULFID	62	77	BY SIMILARITY.
	DISULFID	83	103	BY SIMILARITY.
	DISULFID	105	119	BY SIMILARITY.
	DISULFID	111	116	BY SIMILARITY.
	DISULFID	125	143	BY SIMILARITY.
	CARBOHYD	153	153	N-LINED (GLCNAC, . ,) (POTENTIAL).
SEQUENCE	289 AA:	32111 MW:	C791CB6D6FEA574E CRC64:	
SEQ				

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RESULT 13
R16-CHICK
TD TR16 CHICK **STANDARD;** **PRT;** **416 AA.**
P18519;
01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Tumor necrosis factor receptor superfamily member 16 precursor (affinity nerve growth factor receptor) (NGF receptor (GP80-LNGF (P75 ICD) (low affinity neurotrophin receptor (P75NTR)

Gallus gallus (Chicken).
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galiformes; Phasianidae; Phasianinae
 Gallus.
 NCBI_TAXID=9031;
 [1]
 SEQUENCE FROM N.A.
 TISSUE-BRAIN;

RX	MEDLINE=90166579; PubMed=2560385;	Scor
RA	Large T.H., Weskamp G., Helder J.	
RA	Heuer J.G., Fatemie Nainine S., Wh	
RA	Shooter E.M., Reichardt L.F.;	
RT	"Structure and developmental expr	
RT	receptor in the chicken central n	
RT	Neuron 2:1123-1134 (1989).	
RN [2]		
RP	SEQUENCE OF 21-416 FROM N.A.	
RX	MEDLINE=90152140; PubMed=2154393;	
RA	Heuer J.G., Fatemie Nainine S., Wh	
RT	"Structure and developmental expr	
RT	Dev Biol. 13: 287-304 (1990).	
CC	-1 - FUNCTION: LOW AFFINITY RECEPT	
CC	CC AND NT-4 CAN MEDIATE CELL SU	
CC	NEURAL CELLS (BY SIMILARITY).	
CC	-1 - SUBUNIT: CAN FORM A HOMODIMER	
CC	-1 - SUBCELLULAR LOCATION: TYPE I	
CC	-1 - PTM: N- AND O-GLYCOSYLATED AN	
CC	-1 - SIMILARITY: CONTAINS 4 TNFR-C	
CC	-1 - SIMILARITY: CONTAINS 1 DEATH	
PIRA	JN0006; JN0006.	
DR	A60504; JN00504.	
DR	HSSP; P07174; 1NCR.	
DR	InterPro; IPR00488; Death.	
DR	InterPro; IPR001368; TNFR_C6.	
DR	Pfam; PF00531; death; 1.	
DR	PF0020; TNFR_C6; 4.	
DR	SMART; SN00005; DEATH; 1.	
DR	SMART; SN00208; TNFR; 3.	
DR	PROSITE; PS00652; TNFR_NGFR_1.	
DR	PROSITE; PS50017; NGFR; 2.	
DR	PS50017; DEATH_DOMAIN; 1.	
KW	Receptor; Neurogenesis; Transmembr	
KW	Phosphorylation; Signal; Apoptosi	
FT	SIGNAL	19
FT	CHAIN	20
FT		416
FT		TUMO
FT	DOMAIN	239
FT	TRANSMEM	239
FT	DOMAIN	240
FT	TRANSMEM	261
FT	DOMAIN	262
FT	REPEAT	416
FT	REPEAT	23
FT	REPEAT	57
FT	REPEAT	58
FT	REPEAT	99
FT	REPEAT	100
FT	REPEAT	138
FT	REPEAT	140
FT	REPEAT	180
FT	DOMAIN	323
FT	TRANSMEM	333
FT	DOMAIN	188
FT	TRANSMEM	236
FT	DISULFID	24
FT	DISULFID	35
FT	DISULFID	36
FT	DISULFID	49
FT	DISULFID	56
FT	DISULFID	75
FT	DISULFID	91
FT	DISULFID	99
FT	DISULFID	114
FT	DISULFID	130
FT	DISULFID	138
FT	DISULFID	141
FT	DISULFID	156
FT	DISULFID	159
FT	DISULFID	172
FT	DISULFID	180
FT	CAREOHYD	52
FT	CAREOHYD	52
FT	DISULFID	52
FT	DISULFID	56
FT	DISULFID	136
FT	DISULFID	173
FT	DISULFID	276
FT	DISULFID	396
SQ	SEQUENCE	44654 MW; K-7
QY	LPQAQVAFPTYAPEPGS-TCRRLREYYDQ-	10.2%; Score
QY	DPAPPTVNSKEKCLTKMY-TV	Best Local Similarity 25.1%; Pred
DB	5 VPLULLLDPAGTPTNSKEKCLTKMY-TV	Matches 89; Conservative 48; M

Qy	81 S-TYTOLWNVPECLLSCGSRCSQSSDQETQAGTREQNRCRGPGRYCALSKQEGGCRLLCAP 139			
Qy	140 LRKCRPGFGYARPGNETSDVYCKPCAPGTFNTTSSTDCRPHQICLNVNALPGNAMSDAV 199			
Db	117 CSICVEFGFLMFPCKPSQDPIVCEEPGTESDEANFDPCLPCTICE----ENEMVKE 171			
Qy	200 CTSTSP---RSMAP---RSMAP---GAVHLKQPVSTRSQHQTQPTPEP-----STAPSTSEFLPM 245			
Qy	172 CTSTDAECAECLHPLRWTTHPSLASSD-----TEPITRDPEENTEGMATTLADIVTVVM 225			
Db	246 GSSQPP---AEGSTGDFALPVGLIVGVNPAQHLLITGQVKKPLCLOREAQVPHLP 304			
Qy	226 GSSQPVVSRGTTADNLIPVCSI---LAAVVGLAYIAF--KWNNSCNKQANRNP 278			
Qy	305 ADKARGTQGPQQHQHIIITAPSSSSSLESSASAIDRRRAPTRNPQDAPGVFASGA 358			
Db	279 VNQ---TPSPGEKKL-----HSDDGIVSYDSQSLSHDQOPPNQSTQGPAPKGDS 323			
RESULT 14				
ID	TNR5_BOVIN	STANDARD;	PRT;	269 AA.
AC	Q28203;			
DT	01-NOV-1997 (Rel. 35, Created)			
DT	01-NOV-1997 (Rel. 35, Last sequence update)			
DT	16-OCT-2001 (Rel. 40, Last annotation update)			
DE	Tumor necrosis factor receptor superfamily member 5 precursor			
CC	(CD40L receptor) (B-cell surface antigen CD40) (Fragment).			
CC	(TNFRSF5 OR CD40).			
OS	Bos taurus (Bovine)			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Bovinae; Cetartiodactyla; Ruminantia; Bovidae;			
OC	Bovidae; Bovine; Bos.			
OX	NCBI_TAXID:9913;			
RN	SEQUENCE FROM N.A.			
RP	LINE			
RX	MEDLINE:9281252; PubMed=9135560;			
RA	Hirano A., Brown W.C., Estes D.M.;			
RT	"Cloning, expression and biological function of the bovine CD40 homologue: role in B lymphocyte growth and differentiation in cattle."			
RT	Immunology 90:294-300(1997).			
RL	-1- FUNCTION: RECEPTOR FOR A CYTOKINE LIGAND KNOWN AS CD40L.			
CC	-1- SUBCELLULAR LOCATION: TYPE I membrane protein.			
CC	-1- SIMILARITY: CONTAINS 4 TNR-CYS REPEATS.			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.ebi-sib.ch) or send an email to license@ebi-sib.ch).			
CC	EMBL: U5745; AACB10.1; - .			
CC	IntPro: P2542; ICDF.			
DR	PFam: PF0020; TNFR_C6; 4.			
DR	ProDom: PF000771; TNFR_cg; 1.			
DR	SMART: SM00208; TNFR_4.			
DR	PROSITE: PS00652; TNFR_NGFR_1; 1.			
DR	PROSITE: PS0050; TNFR_B-cell; Glycoprotein; Transmembrane; Repeat; Signal.			
FT	SIGNAL 1 19 POTENTIAL.			
FT	CHAIN 20 >269 TUMOR NECROSIS FACTOR RECEPTOR SUPERAMILY MEMBER 5 EXTRACELLULAR (POTENTIAL).			
FT	DOMAIN 20 193 POTENTIAL.			
FT	TRANSMEM 194 215 POTENTIAL.			
FT	DOMAIN * 216 >269 CYTOPLASMIC (POTENTIAL).			
FT	REPEAT 25 60 TNR-CYS 1.			
RESULT 15				
ID	TNR8_HUMAN	STANDARD;	PRT;	595 AA.
AC	P28908;			
DT	01-DEC-1992 (Rel. 24, Created)			
DT	01-DEC-1992 (Rel. 24, Last sequence update)			
DT	16-OCT-2001 (Rel. 40, Last annotation update)			
DE	Tumor necrosis factor receptor superfamily member 8 precursor (CD30L receptor) (Lymphocyte activation antigen CD30) (Ki-1 antigen).			
GN	TNFRSF8 OR CD30.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
NCBI_TAXID:606;				
RN	SEQUENCE FROM N.A.			
RC	TISSUE-Lymphoid;			
RX	PubMed=1310894; MEDLINE=9215659;			
RA	Duerkop H., Latza U., Hummel M., Eitelbach F., Seid B., Stein H.; Jung W., Krueger S., Renner C., Gause A., Sahin U., Trumper L., Pfreundschuh M.; "Opposite effects of the CD30 ligand are not due to CD30 mutations: results from cDNA cloning and sequence comparison of the CD30 antigen from different sources"; Mol. Immunol. 31:1329-1334 (1994).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=7527901;			
RA	Duerkop H., Latza U., Hummel M., Eitelbach F., Seid B., Stein H.; Jung W., Krueger S., Renner C., Gause A., Sahin U., Trumper L., Pfreundschuh M.; "Opposite effects of the CD30 ligand are not due to CD30 mutations: results from cDNA cloning and sequence comparison of the CD30 antigen from different sources"; Mol. Immunol. 31:1329-1334 (1994).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=9215659;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
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RA	SEQUENCE FROM N.A.			
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RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RX	MEDLINE=95089787; PubMed=1310894;			
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RX	MEDLINE=95089787; PubMed=1310894;			
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RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
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RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
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RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
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RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			
RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
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RA	"Molecular cloning and expression of a new member of the nerve growth factor receptor family that is characteristic for Hodgkin's disease"; Cell 66:421-427 (1992).			
RA	SEQUENCE FROM N.A.			
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RA	SEQUENCE FROM N.A.			
RX	MEDLINE=95089787; PubMed=1310894;			</

RA Horie R.; Ito K.; Tatewaki M.; Nagai M.; Aizawa S.; Higashihara M.; Ishida T.; Inoue J.; Takizawa H.; Watanabe T.; "A variant CD30 protein lacking extracellular and transmembrane domain is induced in Hu-6040 by tetradecanoylphorbol acetate and is expressed in alveolar macrophages."; Blood 88: 2422-2432 (1996).

CC "- FUNCTION: RECEPTOR FOR A CYTOKINE LIGAND KNOWN AS CD30L, MAY PLAY A ROLE IN THE REGULATION OF CELLULAR GROWTH AND TRANSFORMATION OF ACTIVATED LYMPHOBLASTS. REGULATES GENE EXPRESSION THROUGH ACTIVATION OF NFkB.

CC "- SUBCELLULAR LOCATION: Type I membrane protein.

CC "- ALTERNATIVE PRODUCTS: A SHORTER CYTOPLASMIC FORM (C30V) WHICH IS ONLY EXPRESSED IN ALVEOLAR MACROPHAGES IS PRODUCED BY THE USE OF AN ALTERNATIVE INITIATION CODON IN THE SAME READING FRAME.

CC "- PTM: PHOSPHORYLATED ON SERINE AND TYROSINE RESIDUES.

CC "- DISEASE: MOST SPECIFIC HODGKIN'S DISEASE ASSOCIATED ANTIGEN.

CC "- SIMILARITY: CONTAINS 6 TNFR-CYS REPEATS.

CC "- DATABASE: NAME=PROW; NOTE=CD guide CD30 entry; WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd30.htm".

CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL Outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).

DR EMBL; MB3254; AAA51947.1; .

DR EMBL; S75768; AAD14188.1; .

DR EMBL; D86042; BAA12973.1; .

DR PIR; A42086; A42086.

DR HSSP; P19438; INC.

DR MIM; 153243; .

DR InterPro; IPR001368; TNFR_C6.

DR Pfam; PF00020; TNFR_C6; 4.

DR SMART; SM00208; TNFR_4.

DR PROSITE; PS00632; TNFR_NGFR_1; 2.

DR PROSITE; PS50050; TNFR_NGFR_2; 2.

KW Phosphorylation; Glycoprotein; Transmembrane; Signal; Receptor; Repeat; T-cell;

FT SIGNAL 1 18 TUMOR NECROSIS FACTOR RECEPTOR ISOFORM.

FT CHAIN 19 595 SUPERFAMILY MEMBER 8, LONG ISOFORM.

FT SIGNAL 1 18 TUMOR NECROSIS FACTOR RECEPTOR ISOFORM.

FT CHAIN 464 595 SUPERFAMILY MEMBER 8, SHORT ISOFORM.

FT INIT_MET 464 464 TUMOR NECROSIS FACTOR RECEPTOR ISOFORM.

FT DOMAIN 19 379 SUPERFAMILY MEMBER 8, LONG ISOFORM.

FT TRANSMEM 380 407 TUMOR NECROSIS FACTOR RECEPTOR ISOFORM.

FT DOMAIN 408 595 SUPERFAMILY MEMBER 8, SHORT ISOFORM.

FT REPEAT 28 66 FOR SHORT ISOFORM.

FT REPEAT 68 106 EXTRACELLULAR (POTENTIAL).

FT REPEAT 107 150 POTENTIAL.

FT REPEAT 205 241 CYTOPLASMIC (POTENTIAL).

FT REPEAT 243 281 TNFR-CYS 4.

FT REPEAT 282 325 TNFR-CYS 5.

FT DOMAIN 347 377 TNFR-CYS 6.

FT CARBOHYD 101 101 PRO/SER/THR-RICH.

SQ SEQUENCE 276 276 N-LINKED (GLCNAC. . .) (POTENTIAL).

SQ 595 AA; 633747 MW; 7A407C7B8A6E0BC8 CRC64;

Query Match 9.8%; Score 241; DB 1; Length 595;

Best Local Similarity 22.0%; Pred. No. 1.7e-07;

Matches 113; Conservative 41; Mismatches 183; Indels 176; Gaps 17;

Qy 11 AVGLELWAAGAHALPAQVAFTPYAPEPGSTC--RLREYYDDQTAQMCCSKCSPGQHAKVFCT 68
Db 7 ALGLLEFLGALRAFPQDRPFE-----DTCHGPNPSHYDKAVRRCYRCPMGLFPTQQCP 59

Qy 69 KTSDFIVCDSEEDSTYQLWNWPECLSGSGSRCSSDOVETQACTREONRITCRPGNYCAL 128
Db 60 QRPTDCRKQCEPDYTL--DEADRCTACVTCRDLVVEKTPCAWNNSRVCECRPMFCST 116

Gencore version 4.5
 Copyright (c) 1993 - 2000 Compugen Ltd.
 M protein - protein search, using sw model
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 (without alignments)
 2537.406 Million cell updates/sec
 title: US-09-800-909-2
 correct score: 2468
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 Gapop 10.0 , Gapext 0.5
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 minimum DB seq length: 0
 maximum DB seq length: 20000000000
 post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries
 database : SPPREF19.*
 057098 camelpox vi
 057100 monkeypox v
 089098 variola vir
 057111 variola vir
 057115 cowpox virus
 057097 camelpox vi
 085407 variola vir
 057121 variola vir
 057119 cowpox virus
 057118 cowpox virus
 089118 variola virus
 057110 variola virus
 057117 cowpox virus
 057120 cowpox virus
 057121 variola virus
 073559 cowpox virus
 085308 unidentified
 057109 variola virus
 057116 cowpox virus
 057305 cowpox virus
 057123 cowpox virus
 057122 cowpox virus
 095407 homo sapien
 057120 cowpox virus
 075509 homo sapien
 057092 ectromelia
 057300 ectromelia
 057091 ectromelia
 057079 cowpox virus
 072761 cowpox virus

ALIGNMENTS

No. is the number of results predicted by chance to have a score greater than or equal to the score of the test being printed, and is derived by analysis of the total score distribution.

סודות ורמזים

result	No.	Query	
		Score	Match
1	1	2279	92.3
1	2	1498	60.7
4	3	1477	59.8
4	4	1375	55.7
5	5	826	33.5
6	6	503	20.4
7	7	482	19.5
8	8	409	16.6
9	9	390	15.8
10	10	389	15.8
11	11	389	15.8
12	12	389	15.8
13	13	389	15.8
14	14	389	15.8
15	15	386	15.6
16	16	385	15.6

Db	1	GSTCBRLREYDQTAQMCSSCSPGQHAKVCTKTDTCVCSCEDSTYIQMNWPECLSC	60
Qy	97	GSRCSDDOYETOACTREQRNICTCRPGWCALSKOEGCRCLCAPLRKCRPGFVARPGTE	156
Db	61	GSRCSDDOYETOACTREQRNICTCRPGWCALSKOEGCRCLCAPLRKCRPGFVARPGTE	120
Qy	157	SDVYCKPCAGTFSNTSSDICRPHQICNVVAIGNASHADAVCTSTSPTRSMAVGAVHL	216
Db	121	SDVYCKPCAGTFSNTSSDICRPHQICNVVAIGNASHADAVCTSTSPTRSMAVGAVHL	180
Qy	217	PQPVSTRSQTQTPPEPSTAPSTSFLLPMGPSPPPANGSTGDFALPVGLIVGTALGLLII	276
Db	181	PQPVSTRSQTQTPPEPSTAPSTSFLLPMGPSPPPAGSTDFALPVGLIVGTALGLLII	240
Qy	277	GVVNCVIMTQYKKPKLCLQREAKYKPHLPDKARGTQGPQQHLLITAPSSSSLESSAS	336
Db	241	GVVNCVIMTQYKKPKLCLQREAKYKPHLPDKARGTQGPQQHLLITAPSSSSLESSAS	300
Qy	337	ALDRRAPTRNQPAQGVGEASAGEARASTQSSDSSPGGHGTQVNVTICIVNCVSSSDHSQ	396
Db	301	ALDRRAPTRNQPAQGVGEASAGEARASTQSSDSSPGGHGTQVNVTICIVNCVSSSDHSQ	360
Qy	397	CSSQASSTSMGDTDSSPSEPKDEQVPSKECAFRSQLEPETLGSTEKEPLPLGVPDVA	456
Db	361	CSSQASSTSMGDTDSSPSEPKDEQVPSKECAFRSQLEPETLGSTEKEPLPLGVPDVA	420
Qy	457	GMKPS 461	
Db	421	GMKPS 425	
RESULT	2		
ID	088734	PRELIMINARY;	PRT; 482 AA.
DT	01-NOV-1998 (TREMBLrel. 08, Created)		
DT	01-NOV-1998 (TREMBLrel. 08, Last sequence update)		
DE	P80 TNF-ALPHA RECEPTOR.		
GN	TNFR2.		
OS	Mus musculus (Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
NCBI_TAXID	10090;		
RN	{1}		
RP	SEQUENCE FROM N.A.		
RA	MEDLINE=3841512; PubMed=9740674;		
Hurie B., Segred F., Rodriguez R., Ramos S.S., Lazo P.S.;			
RT	"The Mouse Tumor Necrosis Factor Receptor 2 Gene: Genomic Structure and Characterization of the two transcripts."		
RL	Genomics 52:79-98(1998).		
DR	EMBL: Y14619; CAA74969.1; JOINED.		
DR	EMBL: Y14620; CAA74969.1; JOINED.		
DR	EMBL: Y14622; CAA74969.1; JOINED.		
EMBL:	Y14623; CAA74969.1; JOINED.		
DR	EMBL: Y14679; CAA74969.1; JOINED.		
DR	HSSP: P19438; TNFR.		
DR	InterPro: IPR001368; TNFR_c6.		
DR	Pfam: PF00020; TNFR_c6;		
DR	ProDom: PD000771; TNFR_c6;		
DR	SMART: SN00208; TNFR_c6;		
DR	PROSITE: PS00052; TNFR_NGFR_1;		
DR	PROSITE: PS50050; TNFR_NGFR_2;		
KW	Receptor.		
SEQUENCE	482 AA; 51106 MW; F6C15046B48FF93C CRC64;		
Query Match	60.7%		
Best Local Similarity	62.8%		
Matches	297; Conservative 49; Mismatches 111; Indels 16; Gaps 9;		
1	MARYAWAALAVGLDLWAAHALPAQVAAFTPYAPPGSTURL -REYVDQTAQMCCSKCSP 59		

Q9WU14	ID Q9WU14; AC Q9WU14; DT 01-NOV-1999 (TREMBLrel. 12, Created); DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update); DT 01-JUN-2001 (TREMBLrel. 17, Last annotation update)	PRELIMINARY; PRT; 175 AA.	Qy 370 SSPGHHGTQVNVTICIVWCSSSDHSSQCSSQASSTMGDTDSSPSESPKDEQVPFSKEBCA 429 Db 1 SSPGGHHGTQVNVTICIVWCSSSDHSSQCSSQASSTMGDTDSSPSESPKDEQVPFSKEBCA 60
	TUMOR NECROSIS FACTOR RECEPTOR TYPE II (FRAGMENT).		Qy 430 FRSQLQETPETLIGSTEKEPLPLGVDPAGMKS 461 Db 61 FRSQLQETPETLIGSTEKEPLPLGVDPAGMKS 92
Rattus norvegicus (rat).			
CC Mammalia; Chordata; Craniata; Vertebrata; Euteleostomi; CC NCBITAXID-10116;		RESULT 8	
RN [1]	RP SEQUENCE FROM N.A.	Q9UIHO ID Q9UIHO PRELIMINARY; PRT; 78 AA.	
RC STRAIN-SPRAGUE DAWLEY; TISSUE-OVARY;		AC Q9UIHO; DT 01-MAY-2000 (TREMBLrel. 13, Created)	
RA Balachk S.K.; Marcinkiewicz J.L.; RT "Evidence for the Presence of Tumor Necrosis Factor Alpha Receptors During Ovarian Development in the Rat." RL Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.		DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update); DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)	
DR EMBL: AF142499; AAD30148.1; -.		DE TUMOR NECROSIS FACTOR RECEPTOR 2 (FRAGMENT).	
DR InterPro: IPR013368; TNFR_C6.		GN TNFR2.	
DR SMART: SM00208; TNFR_1.		OS Homo sapiens (Human).	
KW Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.		OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.	
FT NON_TER 1 175 AA; 175 MW; 499EEADAAB21ED8B CRC64;		RN [1]	
FT NON_TER 175 AA; 175 MW; 499EEADAAB21ED8B CRC64;		RP SEQUENCE FROM N.A. RX MEDLINE=21069356; PubMed=11197692; RA Tsuchiya N., Komata T., Matsushita M., Ohashi J., Tokunaga K.; RT New single nucleotide polymorphisms in the coding region of human Genes Immun 1:501-505(2000). DR AB030951; BAA89054.1; -.	
SEQUENCE 175 AA; 18201 MW; 499EEADAAB21ED8B CRC64;		FT NON_TER 1 1 FT VARIANT 48 48 K -> E.	
Query Match 20.4%; Score 503.5; DB 11; Length 175; Best Local Similarity 55.9%; Pred. No. 1.3e-31; Matches 99; Conservative 23; Mismatches 52; Indels 3; Gaps 2;		FT SEQUENCE 78 AA; 7841 MW; 3A219A37/EAFF0719 CRC64;	
Matches 99; Conservative 23; Mismatches 52; Indels 3; Gaps 2;		Query Match 16.6%; Score 409; DB 4; Length 78; Best Local Similarity 58.7%; Pred. No. 1.e-24; Matches 77; Conservative 1; Mismatches 0; Indels 0; Gaps 0;	
Qy 147 FGVARPGTEISDVVKCPKCAPGTSNTSNTDICRPHQICVNVAIPGNASMDAVCTSTSPT 206 Db 1 FGVASSRTTSNINVICSAACAPTFSDITSSTVCRPRICSLAIPGNASTAVCASESPT 60		Qy 185 CNVAIAFGNASMDAVCTSTSPTSPRSMAGCAVHLPPQPVSTRSQHTQPTPEPSTAPSTSFLLP 244 Db 1 CNVAIAFGNASMDAVCTSTSPTSPRSMAGCAVHLPPQPVSTRSQHTQPTPEPSTAPSTSFLLP 60	
Qy 207 RSMAGCAVHLPPQPVSTRSQHTQPTPEPSTAPSTSFLLPMPGSPPREGS-TGDFALPVGLI 265 Db 61 PSAGPRTIVYQQEPPTSPRQPMQCEPPSQTQPHIP--VSLSGTTPEPSITGQSLPIGLI 118		Qy 245 MGSPPPAEGSTGDFALPV 262 Db 61 MGSPPPAEGSTGDFALPV 78	
Qy 266 VGVTAGLILITGIVNVIMVQVKRPLCLOEAKYVPHLPAKARTQGPEQQLLT 322 Db 119 VGLTLIGLMGLATCFILVQRKKRPSCLQRETVMPLDDKSQDAIGLEFQQQLLT 175		RESULT 9	
RESULT 7		Q9UIG9 ID 057101 PRELIMINARY; PRT; 349 AA.	
Q9UIG9 PRELIMINARY; PRT; 92 AA.		AC 057101; DT 01-JUN-1998 (TREMBLrel. 06, Created)	
AC 057101; DT 01-MAY-2000 (TREMBLrel. 13, Created)		DT 01-JUN-1998 (TREMBLrel. 06, Last sequence update)	
CC Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.		DE TUMOR NECROSIS FACTOR RECEPTOR 2 (FRAGMENT).	
NCBI_TAXID-9606; RN [1]		GN TNFR2.	
SEQUENCE FROM N.A. MEDLINE=21069356; PubMed=11197692; RA Tsuchiya N., Komata T., Matsushita M., Ohashi J., Tokunaga K.; RT "New single nucleotide polymorphisms in the coding region of human Genes Immun 1:501-505(2000). DR AB030952; BAA89055.1; -.		OS Monkeypox virus.	
RC Sequence analysis as a criterion for allocation of the orthopoxviruses to a particular species." DR U87845; AAB94362.1; -.		OC Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae; OC Orthopoxvirus.	
FT NON_TER 1 92 AA; 9530 MW; 89BEDE40B7CC4FE1 CRC64;		RN [1]	
FT NON_TER 1 92 AA; 9530 MW; 89BEDE40B7CC4FE1 CRC64;		RP SEQUENCE FROM N.A.	
SEQUENCE 92 AA; 9530 MW; 89BEDE40B7CC4FE1 CRC64;		RC STPAREV V.N., Parsons J.M., Esposito J.J.; DR Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.	
Best Local Similarity 100.0%; Pred. No. 2.8e-30; Mismatches 0; Indels 0; Gaps 0;		RT HSSP; O14763; 1D0G.	

GN CRMB.	Monkeypox virus	15.8%	Score 389;	DB 12;	Length 348;
OS viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;					
OC Orthopoxvirus.					
CC NCBI_TAXID=10244;					
DX [1]					
RN RP SEQUENCE FROM N A.					
RC STRAIN=ZAIRE-1996 /96-17, AND ZAIRE-1996 / 96-16;					
RA Loparev V.N., Parsons J.M., Esposito J.J.;					
DR Submitted (JAN-1998) to the EMBL/GenBank/DDJB databases					
RL U88543; ABB94378.1; -.					
EMBL; U87841; ABB94358.1; -.					
DR HSSP; O14763; 1D0G.					
DR InterPro; IPR01368;					
DR Pfam; PF00020; TNFR_c6; 2.					
DR PRODom; PD00077; TNFR_c6; 1.					
DR SMART; SM00208; TNFR_2;					
DR PROSITE; PS00652; TNFR_NGFR_1; 2.					
DR PROSITE; PS50050; TNFR_NGFR_2; 2.					
DR PROSITE; PS50050; TNFR_NGFR_2; 2.					
SEQUENCE 348 AA; 38212 MW; 54019521556C2DBF CRC64;					
Query Match Score 389; DB 12; Length 348;					
Best Local Similarity 42.1%; Pred. No. 2e-22;					
Matches 77; Conservative 22; Mismatches 70; Indels 14; Gaps 6;					
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AC 057108;					
DT 01-JUN-1998 (TREMBLrel. 06, Created)					
DR 01-JUN-1998 (TREMBLrel. 06, Last sequence update)					
DR 01-DEC-2001 (TREMBLrel. 19, Last annotation update)					
DE TUMOR NECROSIS FACTOR RECEPTOR II HOMOLOG.					
GN CRMB.					
OS Monkeypox virus.					
OC Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;					
OC Orthopoxviruses.					
NCBI_TAXID=10244;					
RN RP SEQUENCE FROM N A.					
RA Loparev V.N., Parsons J.M., Esposito J.J.;					
RT "DNA sequence analysis as a criterion for allocation of the orthopoxviruses to a particular species."					
RT Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.					
DR EMBL; U88142; AAB94367.1; -.					
DR HSSP; O14763; 1D0G.					
DR InterPro; IP001368; TNFR_c6.					
DR Pfam; PF00020; TNFR_c6; 1.					
DR PRODom; PD00077; TNFR_c6; 1.					
DR SMART; SM00208; TNFR_2;					
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DR PROSITE; PS50050; TNFR_NGFR_2; 2.					
DR PROSITE; PS50050; TNFR_NGFR_2; 2.					
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Matches 77; Conservative 22; Mismatches 70; Indels 14; Gaps 6;					
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DR PROSITE; PS50050; TNFR_NGFR_2; 2.					
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Db 197 TTT 199

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 ID 057099; AC 057099; DT 01-JUN-1998 (TREMBLrel. 06, Created)
 DT 01-JUN-1998 (TREMBLrel. 06, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DB TUMOR NECROSIS FACTOR RECEPTOR II HOMOLOG.
 GN CRMB.
 OS Monkeypox virus.
 OC Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
 OC Orthopoxvirus.
 OX NCBI_TAXID:10244;
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 RC STRAIN SIERRA LEONE-1970 (70-0266);
 RA Loparev V.N.; Parsons J.M.; Esposito J.J.;
 RT "DNA sequence analysis as a criterion for allocation of the
 orthopoxviruses to a particular species.",
 RT Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.
 RL EMBL; U87843; AAB94360.1; -.
 DR HSSP; Q14763; 1D0G.
 DR InterPro; IPR001368; TNFR_C6.
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 DR PRODom; PD000771; TNFR_C6; 1.
 DR SMART; SM0208; TNFR; 2.
 DR PROSITE; PS00652; TNFR_NGFR_1; 2.
 DR PROSITE; PS50050; TNFR_NGFR_2; 2.
 DR Receptor.
 SQ 349 AA; 38321 MW; FE449028CC933F57 CRC64;

Query Match Score 386.5; DB 112; Length 349;
 Best Local Similarity 41.8%; Pred. No. 3.1e-22;
 Matches 77; Conservative 21; Mismatches 71; Indels 15; Gaps 5;
 QY 31 PYAPEPGSTCRLEYDYDOTAQMCCKSKCSPGQHAKVFCFKTSDFCDSDCTYQLWNWY 90
 Db 24 PHAPSNGK-CKDNAY -RSRNLCCLUSCPPGRNYASRLCDSTNTQCTPCGSDFTSINNHL 80
 Qy 91 PECLSGCSRQSSDQVETOACTREONRBCTRPGWNCALSKEGCRCLAPLKRCPFGVA 150
 Db 81 QACLSNGRCDSNOETRSNTNHRICESSPGYCILKGALGCRCISRKCGTGYGV 140
 Qy 151 RGTTERSDVYCKPCAGTFNSNTSSTDICRPHQICN-----VVAIPGNASMDAVCTS 202
 Db 141 -GYTSTGDVICSPCGFTYSHTVSSTDKCEPVVTNTFNYIDVEINLYPVN--DTSCTR 196
 Qy 203 TSPT 206
 Db 197 TTT 200

Search completed: August 21, 2002, 10:06:30
 Job time: 763 sec

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OM protein - protein search, using sw model

Run on: August 21, 2002, 09:53:12 ; Search time: 434.34 Seconds

(without alignments)

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117.892 Million cell updates/sec

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Perfect score: 2468

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 10%

Listing first 45 summaries

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- 22: /SIDS1/gcgdata/hold-geneseq/geneseq-emb1/AA2001.DAT:*

Human tumour necro

Human TNFBP-associ

Human 75kD TNF-bl

TNF-R deduced from

STNFR (075):Fc fusi

TNFR:Fc fusion pro

Sequence of a recom

Fusion protein TNF

Human type 2 tumou

Wild type N-terminal

Amino acid sequenc

Amino acid sequenc

Human soluble tumo

Tumour necrosis fa

Tumour necrosis fa

A K108R/K120R muta

Human 40 kDa TNF 1

Tnfr2 protein. Un

Primate protein se

Human type 2 tumou

BamTP delta3 nerv

Peptide fragment o

Tumour necrosis fa

Human 40 kDa TNF 1

Rat TNFR (p80) ext

TNFR:Fc fusion pro

Rodent protein seq

Truncated soluble

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

Human 40 kDa TNF 1

TBPII-TBP 130 fusi

TNF-R-TBP 130 fusi

TNF-R extracellular

Human TNF-R extrac

AC

Human TNF-11 pepti

XX Smith CA, Goodwin RG, Beckmann PM;
 XX WPI: 1591-052230/12.
 DR N-PSDB; AAQ10990.
 XX
 PT New tumour necrosis factor -alpha and -beta receptors - and DNA
 PT encoding these used to regulate immune responses in treatment of
 PT cachexia, septic shock or side-effects of cytokine therapy.
 XX Disclosure; Fig 2; 41pp; English.
 XX
 CC The sequence was deduced from a DNA sequence obtnd. from a clone
 CC isolated from a library prcpd. from a human fibroblast cell line,
 CC WI-26 VA4 (ATCC CCL 95.1). The clone is deposited as Accession No.
 CC 68088 under the name PCAV/NOT-TNF-R. The DNA can be truncated to
 CC produce sequences which express soluble receptor comprising
 CC residues 1-235, 1-185 or 1-163 of the protein.
 CC See also AAR11442.
 XX Sequence 461 AA;
 Query Match Similarity 100.0%; Score 2468; DB 12; Length 461;
 Best Local Similarity 100.0%; Pred. No. 1.7e-152; Mismatches 0; Indels 0; Gaps 0;
 Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MAPVAVRAALAVGLEIWAIAAHALPAQAFTTAPEPOSTCIREYDOTAMCCSICSPG 60
 Db 1 mapvavaalavgleiwaiaahalpaqafttapepostcireyydqtaqncckskspg 60
 Qy 61 QHAKVFCETKTSIDTVCDSCDSTYQLMNWVPECLSGSRCSSSDQVETOACTRQNRCITC 120
 Db 61 qhakvfctkttsidtvcdiscdstytqlmnwvpeclsgsrccsssdqvtactrqenrcitc 120
 Qy 121 RGGWYCALSKDQEGCRULRKCAPLRKCRPGFVARQGTETSDVVKCPAPATESTNTTSSDICR 180
 Db 121 rggwycalskdgcrqcaplrkcrpgfvarqgtetsvvckpcapgtfsnttssdicr 180
 Qy 181 PHQICNVVAIPNQASMDAVCTTSPSTSMAPIGAHLFQPVSRQRQOPTPPTAESTS 240
 Db 181 phgicnvvaipnasmdavcttspstsmaapiGAHLFQPVSRQRQOPTPPTAESTS 240
 Qy 241 FLLPMGSPSPPARGSTGDFALPGLVGVTAGLGLITGVNCVMTQKKPKCLOREAKY 300
 Db 241 fllpmgspsppargstgdfalpglvgttaglglitgvncvmtqkkpkclicqreakv 300
 Qy 301 PHLPADKARGTQGPQEQLLTTAPSSSSSSLESSASALDRRAPTRNQOACVEASCGE 360
 Db 301 phlpadkargtqgpqeqlttapsssssslessasaldraptrnqoacveasgag 360
 Qy 361 AFASTGSDSSPQSSQASLDRAPTRNQOACVEASCGE 420
 Db 361 arastgssdpqsgqhtqvnvtcivnccssshssqsssstmgtdsspsespdkdq 420
 Qy 421 YFPSKECAFRSOLQETPETLIGSTEKEPLPQYDAGMKPS 461
 Db 421 yfiskeecafqrslqetpetligrsteekplpqpvdagmkps 461
 RESULT 2
 ID AAR42058 standard; Protein: 461 AA.
 XX AAR42058;
 XX 29-APR-1994 (first entry)
 XX Fibroblast derived TNF-R.
 XX Human: tumour necrosis factor receptor; TNF-R; interleukin-1 receptor;
 KW IL-1R_x fusion protein; linker; TNF; IL-1; cachexia; cerebral malaria;
 KW rheumatoid arthritis; diabetes; multiple sclerosis; septic shock;

KW pulmonary fibrosis; silicosis; allograft; xenograft; rejection;
 KW graft versus host disease; sepsis; inflammation; allergy;
 KW autoimmune dysfunction.
 XX OS Homo sapiens.
 XX Key
 FH Peptide
 FT Protein
 FT Peptide
 PN WO9319777-A.
 XX PD 14-OCT-1993.
 XX PF 26-MAR-1993; 93WO-US02938.
 PR 30-MAR-1992; 92US-0860710.
 PA (IMMUNEX CORP.
 XX PI Smith CA;
 XX WPI: 1993-336592/42.
 DR N-PDB; AAO49331.
 XX New fusion protein tumour necrosis factor and human interleukin-1
 PT receptor - useful in therapy, diagnosis and assays of e.g.
 PT rheumatoid arthritis, diabetes, cerebral malaria, sepsis, etc.
 XX
 PS Claim 5; Fig 2; 85pp; English.
 XX
 CC The sequences given in AAR42058-59 represent human tumour necrosis
 CC factor receptor (TNF-R) and the sequences in AAR42060-61 represent
 CC human interleukin-1 receptor (IL-1R). These sequences were used in
 CC the production of a fusion protein which conformed to one of the
 CC formulae:
 CC TNF-R-linker-TNF-R-linker-IL-1R
 CC IL-1R-linker-TNF-R-linker-TNF-R or
 CC TNF-R-linker-TNF-R
 CC
 CC The linker may comprise 5-100 amino acids selected from Gly, Asp,
 CC Ser, Thr and Ala. These linkers separate the individual moieties
 CC by such a distance that each component of the fusion protein is
 CC capable of folding into the secondary or tertiary structure required
 CC for its biological activity. These fusion proteins may be used in
 CC therapy, diagnosis and assays for conditions mediated by TNF or IL-1,
 CC particularly in conditions in which both TNF and IL-1 play a causitive
 CC role. They may be used to treat cachexia, rheumatoid arthritis,
 CC diabetes, multiple sclerosis, pulmonary fibrosis and silicosis,
 CC cerebral malaria, alloraft and xenograft rejection in graft versus
 CC host disease, sepsis, septic shock, inflammation, allergies and
 XX autoimmue dysfunctions.
 SQ Sequence 461 AA;
 Query Match Similarity 100.0%; Score 2468; DB 14; Length 461;
 Best Local Similarity 100.0%; Pred. No. 1.7e-152;

ID	XX	AAB37801	standard; Protein;	461 AA.
XX	XX			
AC	XX			
XX	XX			
DN	23-FEB-2001	(first entry)		
XX	XX			
DE	Human tumour necrosis factor p75 receptor			
XX	XX			
KW	Human; tumour necrosis factor; TNF; TNF-alpha; TNF-beta; p55 receptor; P75 receptor; antiinflammatory; haemostatic; antibacterial; sepsis; immunosuppressive; immunomodulator; cardiotonic; cytostatic; cachexia; neuroprotective; respiratory; inflammation; infection; Crohn's disease; multiple sclerosis; autoimmune disorder; cardiovascular disorder; chronic myelogenous leukaemia; inflammatory bowel disease.			
KW	XX			
KW	chronic myelogenous leukaemia; inflammatory bowel disease.			
XX	XX			
XX	Homo sapiens.			
XX	N-PSDB; AAQ10907/11.			
DR				
XX				
XX	Tumour necrosis factor inhibitor - for suppression of TNF-alpha and -beta, useful as therapeutic agent.			
PT				
PT				
PS				
PS				
XX				
XX	Disclosure; Fig 39; 142pp; English.			
CC				
CC	The sequence comprises the entire 40 kD TNF inhibitor. The clone from which the sequence was deduced was isolated from a cDNA library prep. from RNA form U937 cells treated with PMA/PHA.			
CC	The whole gene can be inserted into expression vectors for prepn. of TNF inhibitor for use in the treatment of inflammatory and degenerative diseases.			
CC	See also AAR10986 and AAR10984.			
XX				
XX	Sequence 461 AA;			
SQ				
Query Match	99.8%	Score 2462;	DB 12;	Length 461;
Best Local Similarity	99.8%	Pred. No. 4.3e-152;		
Matches 460;	Conservative	O; Mismatches 1;	Indels 0;	Gaps 0;
QY	1 MAPYAWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCRPLREYDQTAOMCCSKCSPG 60			
Ddb	1 mapyawaalavglelwaahalpaqvaftpyapepgstcrplreydqtaqmccksmsp 60			
QY	61 QHAKVFCFTKTSVDSCSEDSTYTOTLWNWPECLSGSRCSQSSDQVETQACTREQNRCITC 120			
DDD	61 qhakvfcftktsvdscsedytotlwnwpeclsgsrssdqvttqactreqnrcitc 120			
QY	121 RPNYCALSKQEGRCLCAPLRKCREFGEFYARPGTETSDVYCKPCAPGTFSNNTSSDICR 180			
Ddb	121 rpnycalskqegrccraplrkcrgfgyarpgtetsdvckpcapgtfsntssdicr 180			
QY	181 PHQICNVVIAIPGNASMDAVCTSTSPTRSMAPGVPLPVYSTRSQTQPTPPSTAPSTS 240			
Ddb	181 phqicnvvaiapgnasmdavctstsptrsmapgvplpvystrsqtqptppstapsts 240			
QY	241 FLLMGPSPPAEGGSTGDFALPVGVLIGVIALGLLIGVNCVIMQVKKKPLCLOREAKV 300			
DDD	241 fllmgpsppaeggstgdflalgvlivgtalglilgivvcimqvkplclookav 300			
QY	301 PHLPADKARGTGGTGPQQHLJLITAPSSSSLESSASALDRRAPTRNQOAPGVEASGAGE 360			
QY	301 phlpadkargtggtgpqqhllitapsssslessasaldrraptqnqgqveasgage 360			
Ddb	361 ARASTGSSDSSPSPGHGTQVNWTCTYCNVCCSSDASSMGTDTSSPSESPKDEQ 420			
QY	361 arastgssdssspghgtqvnwtctycnvccssdassmgtdtsspsespkdeq 420			
Ddb	421 VPFSKEECAFQSOLLETPELTLGSTEKEPLPLIGVDPAGMKPS 461			
QY	421 vpfskeeafqsolletpeletlgstekeplpligvpdagmkps 461			
Ddb	121 rpgywcalskqegrccraplrkcrgfgyarpgtetsdvckpcapgtfsntssstdicr 180			
QY	121 rpgywcalskqegrccraplrkcrgfgyarpgtetsdvckpcapgtfsntssstdicr 180			
QY	121 PHQICNVVIAIPGNASMDAVCTSTSPTRSMAPGVPLPVYSTRSQTQPTPPSTAPSTS 240			

Db	361	arastgssdssppghgtqvnvtcinvvcssdhscssqassstmgdtdsspsespdkdq 420
Qy	421	VPFSEKECAFRSQLLETPETLIGSTEKKPLPLGVDPAGMKPS 461
Db	421	vptskewcaecarsqltpetliligsteekplgvdpagmkps 461
Db	421	vptskewcaecarsqltpetliligsteekplgvdpagmkps 461
RESULT	9	
	AAB37686	
ID	AAB37686	standard; protein; 461 AA.
XX		
AC	AAB37686;	
XX		
DT	02-MAR-2001	(first entry)
XX		
DE	Human 40 kDa TNF inhibitor precursor.	
XX		
KW	TNF inhibitor; antiinflammatory; Tumour Necrosis Factor; interleukin; IL-1; inflammatory disease; degenerative disease; human; lymphotoxin.	
XX		
OS	Homo sapiens.	
XX		
PN	US6143866-A.	
XX		
PD	07-NOV-2000.	
XX		
PF	19-JAN-1995;	95US-0375242.
XX		
PR	19-JUL-1990;	90US-0555274.
PR	09-JUL-1993;	93US-009066.
PR	18-JUL-1989;	89US-0381080.
PR	11-DEC-1989;	89US-0450329.
PR	07-FEB-1990;	90US-0479661.
XX		
PA	(AMGE-) AMGEN INC.	
XX		
PI	Squires C, King MW, Hale KK, Brewer MT, Thompson RC;	
PI	Vanderslice RW, Vannice J, Kohno T;	
XX		
DR	2001-006443/01.	
DR	N-PSDB; AAC83931.	
XX		
PT	Novel 30 kDa tumor necrosis factor inhibitor analog comprising a non-native cysteine residue cross-linked with polyethylene glycol,	
PT	useful for treating inflammatory and degenerative diseases mediated by TNF -	
PT	-	
XX		
PS	Example 12; Fig 39; 82pp; English.	
XX		
CC	The present invention relates to Tumour Necrosis Factor (TNF) inhibitor (see AAB37686 and AAB37685), which have TNF inhibitory activity. The novel TNF inhibitors of the present invention are useful as therapeutic agents for inhibiting the activity of TNF and interleukin (IL-1), and for treating inflammatory and degenerative diseases mediated by TNF. The present sequence is the precursor for 40 kDa TNF inhibitor. The 40 kDa TNF inhibitor can inhibit both TNF alpha and beta (lymphotoxin).	
CC	Sequence 461 AA;	
SQ		
Query Match	99.8%	Score 2462; DB 22; Length 461;
Best Local Similarity	99.8%	Pred. No. 4_3e-152;
Matches 460;	Conservative 0;	Mismatches 1; Indels 0; Gaps
Qy	1 MAPYAVWAALAVGLELWAAHALPAQAVAFTPYAPEPGSTCRLREYYDQAOMGCSKCSPG 60	
Db	1 mapravwaalavglelwaahalpaqavaftpyapepgstcrlreyydtaqmcscskcspg 60	
Qy	61 QHAKVFCTKTSDPTVCDSCESTYTOIWNWPECLSGCSRCSQSSDQVETQACTRQNRCIC 120	
Db	61 qhakvfctkttsdtvcdscestytoiwnwpeclsgsrccsdqveactrqactrcic 120	
Qy	61 QHAKVFCTKTSDPTVCDSCESTYTOIWNWPECLSGCSRCSQSSDQVETQACTRQNRCIC 180	

Db	121	rgywycalskqegcrlicapirkrccrgffgvarpgtesdvvckpcaggfantsstdcr	180
Qy	181	PHOCNVAAPGNASMDAYCTSTSPRSMAPGAVHLPPQPVSTRSOHQTPRPEPSTAPSTS	240
Db	181	phajcnvvalpgnasrdavetspsrsmapgavhlppqvptrsqnqtpesptapsts	240
Db	241	FLLPMGKPSPAEGSNGDFALPVGLIVGTAGLGLIGVNVNCVIMTQVKKKPCLCROEAKV	300
Qy	241	fllpmgkpspaegsngdfalpvglivgtaglgligvnvncvimtqvkklpiclqreakv	300
Db	241	fllpmgkpspaegsngdfalpvglivgtaglgligvnvncvimtqvkklpiclqreakv	300
Qy	301	PHLPDAKAGTQQHLLITAPSSSSLESSAALDRRAPTRIQPQAPEVEASAGE	360
Db	301	phlpadakagtqqpeqhqllitapsssslessaaldraptriqpqaapeveasage	360
Qy	361	ARASTGSSDSSPGGHGTOINVTCIVNCVSSDDHSSCQSSAOASSTRMGTDSSESPDEQ	420
Db	361	arastgssdsspgghgtovinvtcivncvssddhsscqcassstmgtdssspespkdeq	420
Qy	421	VPFSEKECAFRSQLETPETLIGSTEEKPLPLGVPDAGMKPS	461
Qy	421	vpfsekcafrsqletpetlgssteekplplgvpdagmkps	461
Db	421	vpfsekcafrsqletpetlgssteekplplgvpdagmkps	461
RESULT 10			
	AAR72504		
ID	AAR72504	standard; protein;	461 AA.
XX			
AC	AAR72504;		
XX			
DT	31-OCT-1995	(first entry)	
XX			
DE	p75	Tumour Necrosis Factor Receptor.	
XX			
KW	Ligand; tumour necrosis factor; nerve growth factor; TNF; NGF;		
KW	receptor.		
XX			
OS	Homo sapiens.		
XX			
FH	Key	Location/Qualifiers	
FT	Region	27..214	
FT		/label= TBPII.	
FT	Domain	258 .. 285	
FT		/label= Transmembrane domain.	
FT	Misc-difference	259	
FT		/note= "Unidentified amino acid."	
XX			
PN	EP648783-A.		
XX			
PD	19-APR-1995.		
XX			
PF	11-OCT-1994;	94EP-0116015.	
XX			
PR	12-OCT-1993;	93IL-0107267.	
XX			
PA	(YEDA) YEDA RES & DEV CO LTD.		
PA	(WALL/) WALLACH D.		
XX			
PI	Beletsky I., Bigda J., Mett I., Wallach D;		
XX			
DR	WPI; 1995-148673/20.		
DR	N-PSDB; AAQ89344.		
XX			
PT	Tumour necrosis factor (TNF) receptor ligand - used to increase inhibitory effect of a soluble TNF receptor		
XX			
PS	Disclosure; Figure 2; 18pp; English.		
XX			
CC	A Ligand to a member of the tumour necrosis factor (TNF)/nerve growth factor (NGF) receptor family which binds either to the region of the 4-th Cys rich domain of the receptor, or to the region between it and the cell membrane may be used in the production of a pharmaceutical composition for increasing the inhibitory effect of a		
CC			

CC soluble receptor of the TNF/NGF receptor family. This sequence
CC is the sequence of the p75 TNF receptor.
XX SQ Sequence 461 AA;

Query Match 97.0%; Score 2394; DB 16; Length 461;
Best Local Similarity 96.4%; Pred. No. 1.1e-147;
Matches 451; Conservative 0; Mismatches 3; Indels 14; Gaps 2;

Qy 1 MAPYAWAALAVGLEBLWAAMHALPAQVAFTPYAPEPGSTICRLREYDQTAQMCCKCSPG 60
Db 1 mapyawaalavgleblwaamhalpaqvaftpyapepgsticrlreydqtaqmcckcspg 60
Qy 61 QHAKFCTKTSITDTVCDSCEDSYTYTOLWNWPECLCGSRCSDSQVETQACTREQRICTC 120
Db 61 qhakfctktsitdtvcdscedsytolywnwpeclcgscrsdsdqvetqactreqrictc 120
Qy 121 RPNYCALSKQEGCRICAPLURKCRCRPFGEVARYPCAPGTFNSNTSSSTDICR 180
Db 121 rpgwcalskqegecricaplurkcrcrpfgevapgtetsdvcpcapgtntssdicr 180
Qy 181 PHQICNVAVALPGNAMDAYCTSTSPTRSMAPGAVHLPOPVSTRSHTQPIPEPSTAPSTS 240
Db 181 phqicnvalvalpgnasmdayctstsptrsmapgavhlppqvstrshtqpipepsts 240
Qy 241 FLLPMGPSPPAEGSTGDFALPVLGLTVGVTAFLGLLIGVVCVIMQVKKKPLCLOREAKV 300
Db 241 fillpmgpsspaegstgdfx.pvglivgvtaflgliliqvvncvimqvkplcloreaky 300
Qy 301 PHLPADKARGTQPEQQHLLITAPSSSSLESSASALDRRAPRNQOAPGVVEASAGE 360
Db 301 philpadkarqtqpeqqhllitapsssslessasaldrraprnqoapgvveasage 353
Qy 361 ARASTGSSDSSPGGHGTQ ----- VNVTCIVNVCSSSDHSQSASSSTMGDTDSSPS 413
Db 354 arastgssasspggggtqapgvveasvnyctvnccsssdhsqsassstmgdtssps 413
Qy 414 ESPKDEQVPFSKEECAFRSLSLETPETLIGSTEERKLPLGVPDAGMKPS 461
Db 414 espkdeqvpfskeecafrslsletpetllystekplplgvpdagmkps 461

RESULT 11
ID AAR51002 standard; Protein; 461 AA.
AC AAR51002;
XX DT 07-OCT-1994 (first entry)
XX DE Sequence of human tumour necrosis factor receptor type I
DE (TNFR).
XX KW Tumour necrosis factor receptor; type⁷I; TNFR; arthritis therapy.
XX OS Homo sapiens.
XX Key Location/Qualifiers
FT Peptide 1..22
/label= signal
FT Peptide 22..461
/label= mature
XX PN W09406476-A.
XX PD 31-MAR-1994.
XX PR 14-SEP-1993;
XX PA (IMMV) IMMUNEX CORP.

XX PI Jacobs CA, Smith CA;
XX DR WPI: 1994-118172/14.
XX DR N PSDB; AAQ5224.
XX PT Treating TNF mediated inflammatory diseases with TNF antagonist - esp. soluble form of TNF receptor, opt. as fusion protein with human immunoglobulin FC region, esp. for treating arthritis
XX PS Disclosure; Page 28-30; 47PP; English.
XX AP045224 is cDNA from clone 1 of library WI-26 VA4 of human fibroblast cell line WI-26 VA4. The mature full-length TNFR1 is a glycoprotein having a mol. wt. of about 75-80 kDa. The cloning of the cDNA for TNFR1 was described in Smith et al., Science 248:1019-1990, Clone 1 is contained in expression vector pCAV/NOT-TNFR (ATCC 68088). The preferred TNFRs of the present invention are soluble forms of TNFR1 and TNFR2 having at least 20 AAs. Soluble TNFR constructs are devoid of a transmembrane region but retain the ability to bind TNF. Examples of soluble TNFRs are hutzTNFRdelta35, hutzTNFRdelta185 and hutzTNFRdelta163 which encode respectively AAs 1-235, 1-185 and 1-163 of AAR51002. An equivalent soluble TNFR is hutzTNFRdelta185 which encodes AAs 163-235 of AAR51002.
XX Sequence 461 AA;

Query Match 96.3%; Score 2376; DB 15; Length 461;
Best Local Similarity 96.7%; Pred. No. 1.6e-146;
Matches 446; Conservative 5; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MAPVAVAAALAVGLELMAAHAALPAQVAFATPYAPEPGSTCRLEYYDDTAQMCCKCSPG 60
Db 1 mapvarvalavglelmaaha.hapqraftpyapregstcrreyddtaemcwskscspg 60
Qy 61 QHAKFCTKTSITDTVCDSCEDSYTYTOLWNWPECLCGSRCSDSQVETQACTREQRICTC 120
Db 61 qhakfctktsitdtvcdscedsytolywnwpeclcgscrsdsdqvetqactreqrictc 120
Qy 121 RPKWYCALSKQEGCRICAPLURKCRCRPFGEVARYPCAPGTFNSNTSSSTDICR 180
Db 121 rpkwyvalvalpgnasmdayctstsptrsmapgavhlppqvstrshtqpipepsts 180
Qy 181 PHQICNVAVALPGNAMDAYCTSTSPTRSMAPGAVHLPOPVSTRSHTQPIPEPSTS 240
Db 181 phqicnvalvalpgnasmdayctstsptrsmapgavhlppqvstrshtqpipepsts 240
Qy 241 FLLPMGPSPPAEGSTGDFALPVLGLTVGVTAFLGLLIGVVCVIMQVKKKPLCLOREAKV 300
Db 241 fillpmgpsspaegstgdfx.pvglivgvtaflgliliqvvncvimqvkplcloreaky 300
Qy 301 PHLPADKARGTQPEQQHLLITAPSSSSLESSASALDRRAPRNQOAPGVVEASAGE 360
Db 301 philpadkarqtqpeqqhllitapsssslessasaldrraprnqoapgvveasage 353
Db 361 ARASTGSSDSSPGGHGTQVNYTCIVNCCSSSDHSQSASSSTMGDTDSSPS 420
Qy 421 VPFSEKECAFREQLETETLJUSTEERPLPLGVPDAGMKPS 461
Db 361 arastgssdsspgghgtqvnytcivnccsssdhsqsassstmgdtssps 420
Db 421 vpfsekecafresqltetllystekplplgvpdagmkps 461

RESULT 12
AA Y3035
ID AY3035 standard; Protein; 392 AA.
XX AC AY3035;
XX DT 18-OCT-1999 (first entry)

Db	1	sdvcdsedstytq1wnwwpecscjsrccsqveractegnrlctrgwycalsk	60	CC CC CC CC CC XX SQ	placental cDNA bank constructed in lambda gt11. Positive clones were identified and sequenced. Repeated sequencing showed a discrepancy at position 7 such that the third codon encodes either Thr or Ser. See also AAQ10955.
Qy	131	QEGRCLCAPRKCRPFGVYARPTETSDUVCRCPAGTFSNTSSTDICRPHICNVVAI	190	1;	
Db	61	qegeclcaplkpcrpqfgyarptetsavckpcaptfsttsdcrphicnvvai	120		
Qy	191	PGNASMDAVCTSTSPTSRMAGVHLPOPVSRSQHTOPTPEPSTARSTSFLLPMGPSPPP	250		
Db	121	pnasrdavctsuptsrmapgavhlpopvsrstsqhgcpspeptapsfl1pmgspp	180		
Qy	251	AEGSTGDFALPVGLIVGTAIGLIGIVNCVIMTQQKKPLCLOREAKVPHLPADKARG	310		
Db	181	aegstgdalpqlglivgtaligliliqvcimtqykkpiclqreakvhlpadkarg	240		
Qy	311	TQPEQQLLIRAPSSSSSEASSAALDRAPTRNQOAPGEASAGEARASTGS - D	369		
Db	241	tqspqehllitcapssssseassaaaldraptrnqpgapqyeasagearastgsad	300		
Qy	370	SSPGGHENQVNVTICIVNCSSDHSQCQASSTMGBDTDSSPSESPKDEQVPSKEECA	429		
Db	301	sspgghgtqvintcvicvcssdhsqassmgtddspespkdeqvpskeeca	360		
Qy	430	FRSQLETPTELIGSTEKPLGLVDPAGMKPS	461		
Db	361	frsqletptelggsteekplglvdpagmkps	392		
<hr/>					
RESULT	14				
AAR11605					
ID	AAR11605	standard; Protein;	392 AA.		
XX					
AC	AAR11605;				
XX					
DT	24-MAY-1991	(first entry)			
XX					
DE	Human 75kd TNF-binding protein.				
XX					
KW	Tumour Necrosis Factor; binding proteins; septic shock;				
RW	autoimmune glomerulonephritis; lymphokine; cytokine.				
XX					
Key	Misc-difference	Location/Qualifiers			
FH					
FT		/label= Ser, Thr			
XX					
PN	EP417563-A.				
XX					
PD	20-MAR-1991.				
XX					
PF	31-AUG-1990;	90EP-0116707.			
XX					
PR	20-APR-1990;	90CH-0001347.			
PR	12-SEP-1989;	89CH-0003319.			
PR	08-MAR-1990;	90CH-0000746.			
XX					
PA	(HOFF) HOFFMANN LA ROCHE AG.				
XX					
PI	Brockhaus M, Schlaeger EJ;	Gentz R,	Lesslauer W,	Lotscher H,	
XX					
DR	WPI; 1991-081851/12. N-PSDB; AAQ10956.				
XX					
PT	Insoluble tumour necrosis factor binding proteins - and DNA encoding them, useful in pharmaceutical prods. and for antibody prodn.				
PT	Claim 1: Fig 1; 26pp; German.				
XX					
PS					
XX					
CC	Partial amino acid sequences were determined for the 55 and 75kD TNF-BPs (see AAR11072-R11081) and oligonucleotide primers were synthesised based on these partial sequences. The primers were used to produce a cDNA fragment for use as a probe to screen a human				
CC					
PA	(IMMU-) IMMUNEX CORP.				

XX Smith CA, Goodwin RG, Beckmann PM;
 XX DR WPI: 1991-082230/12.
 XX N-PSDB; AA01099.
 PT New tumour necrosis factor -alpha and -beta receptors - and DNA
 PT encoding these used to regulate immune responses in treatment of
 XX cachexia, septic shock or side-effects of cytokine therapy.
 PS Disclosure; Fig 3; 41pp; English.
 XX CC The sequence was deduced from a clone isolated from library prepd.
 CC from a murine T helper cell line, 7B9.
 See also AAR11141.
 XX SQ Sequence 474 AA;

	Query Match	Score 61.0%	DB 12;	Length 474;
Qy	Best Local Similarity	62.8%	Pred. No. 5	3e-90;
Qy	Matches 292; Conservative	50;	Mismatches	115;
Db	1 mapaaflwaaahalpaqvaafmpyapepgstcrl-reyydotaqmcscskcsp	5.9	Indels	8;
Db	1 mapaaflwaaahalpaqvaafmpyapepgstcrl-reyydotaqmcscskcsp	5.9	Gaps	6;
Qy	1 MAPVAYWAALAVGLELWAAAHALPAQVAFMPYAPEPGSTCRL-REYYDOTAQMCSCSKCSP	5.9		
Db	1 mapaaflwaaahalpaqvaafmpyapepgstcrl-reyydotaqmcscskcsp	5.9		
Qy	60 GQHAKVFCFKTSDFVCDSCSDSTYFQLMWNWPECLSGSRSQSDQVEIQACTREQNRICT	1.19		
Db	61 qgyvkhfcnktsdfvcdceasmytgwngfrtc1scsssetdqvairactkgqrvc	1.20		
Qy	120 CPGWYCALSQEG-CRLCAPLRKCRPFGYARPGTETSDVCKPCAPGTEFSNTSSTDI	1.78		
Db	121 ceagycdlkthsgsrqcm1skewgfrapngivlckacaptgltsdtlsstdv	1.80		
Qy	179 CRPHQICNVVIALPGNASMDAVCTSTSPTRSMAPGAVHLPOPVSTRSQHTQTPPEPSTAPS	2.38		
Db	181 cphrcsilaqpnastdavcapeptisaiaprtlyvspeptisqpldqgpqpsqtpr-	2.39		
Qy	239 TSEFLMGPSPDAEGST-GDPLAPlGLIVGTYALGLLIGVNCVIMTQVKKPKLLORE	2.97		
Db	240 -siltsglspiedstkgqlslplglivgvtslgilmglivncilvqrkkpsclqrdr	2.98		
Qy	298 AKVPHLPADKARGTGTGQPEQQHLITAPSSSSLESSASALDRRAPTRNQFQAPGV-EAS	3.56		
Db	299 akvphlpadkargtgtgqpeqqhlitapsssslessasaldrrapqgnqarvnaeaq	3.58		
Qy	357 GAGEARASTGSSDSSPGHGHTQVNNTCIVNYCSSLSSDHSSQCSOASSTMGDTDSSPSESP	4.16		
Db	359 gfarassrisdssshghnvcinvossdssqcsqasatvgpdakpsasp	4.18		
Qy	417 KDEQVDFPSKECNAFRSQELEPTEILGOSTEERPLPQVDPACKPS	4.61		
Db	419 kdeqvpfsqeeqpsqspccettel--qshekplp1gvpdmgmkmks	4.61		

Result No.	Score	Query Match	Length	DB ID	Description	SUMMARIES
1	2468	100.0	461	1	US-08-385-229-2	Sequence 2, Appl1
2	2468	100.0	461	2	US-08-353A-13	Sequence 2, Appl1
3	2468	100.0	461	4	US-08-477-47-3	Sequence 3, Appl1
4	2468	100.0	461	4	US-08-477-862-2	Sequence 2, Appl1
5	2468	100.0	461	6	5395760-2	Patent No. 5395760
6	2462	99.8	461	4	US-08-042-785A-7	Sequence 7, Appl1
7	2462	99.8	461	4	US-09-006-353A-4	Sequence 4, Appl1
8	1512	61.3	474	2	US-08-050-000-4	Sequence 8, Appl1
9	1512	61.3	474	4	US-09-042-785A-8	Patent No. 5395760
10	1512	61.3	474	6	5395760-4	Sequence 4, Appl1
11	1433	58.1	518	1	US-08-385-229-4	Sequence 1, Appl1
12	1404	56.9	486	1	US-08-243-010-1	Sequence 4, Appl1
13	1312	53.2	235	4	US-09-326-394-4	Sequence 4, Appl1
14	1263	51.2	227	3	US-08-022-48	Sequence 48, Appl1
15	1263	51.2	227	4	US-08-795-445A-48	Sequence 48, Appl1
16	1263	51.2	227	4	US-08-795-447A-48	Sequence 48, Appl1
17	1263	51.2	227	4	US-08-795-446B-48	Sequence 48, Appl1
18	1263	51.2	227	4	US-08-795-446B-48	Sequence 48, Appl1
19	931	37.7	163	2	US-08-219-237B-5	Sequence 5, Appl1
20	931	37.7	163	4	US-08-476-562-4	Sequence 4, Appl1
21	931	37.7	163	4	US-08-466-560C-5	Sequence 5, Appl1
22	924.5	37.5	164	2	US-08-078A-9	Sequence 9, Appl1
23	924.5	37.5	164	2	US-08-974-022-42	Sequence 42, Appl1
24	695	28.2	120	3	US-08-445A-42	Sequence 42, Appl1
25	695	28.2	120	4	US-08-447A-42	Sequence 42, Appl1
26	695	28.2	120	4	US-08-974-186-42	Sequence 42, Appl1
27	695	28.2	120	4	US-08-974-186-42	Sequence 42, Appl1

ALIGNMENTS

RESULT 1
US-08-385-229-2 ; Sequence 2, Application US/08385229
; Patent No. 5606690
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Cindy A.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Method of Treating TNF-Dependent Factor Necrosis Factor Antagonists
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patient Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/385,229
; FILING DATE:
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/07/946,236
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wright, Christopher L.
; REGISTRATION NUMBER: 31,680
; REFERENCE/DOCKET NUMBER: 2503
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 587-0606
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-385-229-2

Qy

1 MAPVAVWALAVGLEWAAHALPAQVAFTPAPEPGSTCRLEYYDOTAQMCCKSPG 60

RESULT 2
 US-08-650-000-2
 ; Sequence 2, Application US/08650000
 ; Patent No. 5345397
 ; GENERAL INFORMATION:
 ; APPLICANT: Beermann, M. Patricia
 ; ADDRESS: Immunex Corporation
 ; STREET: 51 University Street
 ; CITY: Seattle
 ; STATE: Washington
 ; COUNTRY: U.S.A.
 ; ZIP: 98101
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patient.In Release #1.0,
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/650,000
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/468,453
 ; FILING DATE:
 ; APPLICATION NUMBER: US/08/038,765
 ; FILING DATE:
 ; APPLICATION NUMBER: US 403,241
 ; FILING DATE: 05-SEP-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 405,370
 ; FILING DATE: 11-SEP-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 421,417
 ; FILING DATE: 13-OCT-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 523,635

FILING DATE: 10-MAY-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Wright, Christopher L.
 REGISTRATION NUMBER: 31,680
 REFERENCE/DOCKET NUMBER: 2501-D
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 587-0430
 TELEFAX: (206) 233-0644
 INFORMATION FOR SEQ ID NO: 2:
 SOURCE CHARACTERISTICS:
 LENGTH: 461 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-650-000-2

Query Match Score 2468; DB 2; Length 461;
 Best Local Similarity 100.0%; Ped. No. 5,7e-17;
 Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAPVAVWAALAYGLELWAHAHLPAQVAFYTAPEFGSTCFLREYYDQACMCCSKCSPG 60
 Db 1 MAPVAVWAALAYGLELWAHAHLPAQVAFYTAPEFGSTCFLREYYDQACMCCSKCSPG 60
 QY 1 MAPVAVWAALAYGLELWAHAHLPAQVAFYTAPEFGSTCFLREYYDQACMCCSKCSPG 60
 QY 61 QHAKVFCTKTSDFCDSCEDSTYQTLWNWWPECLSGCSRCSQVETQAATRCNRICTC 120
 Db 61 QHAKVFCTKTSDFCDSCEDSTYQTLWNWWPECLSGCSRCSQVETQAATRCNRICTC 120
 QY 121 RPGWYCALSKQBGCRCLCAPLRKCRPGVQARVQETSDVCKPCAPGFSNTSSTDICR 180
 Db 121 RPGWYCALSKQBGCRCLCAPLRKCRPGVQARVQETSDVCKPCAPGFSNTSSTDICR 180
 QY 121 RPGWYCALSKQBGCRCLCAPLRKCRPGVQARVQETSDVCKPCAPGFSNTSSTDICR 180
 Db 121 RPGWYCALSKQBGCRCLCAPLRKCRPGVQARVQETSDVCKPCAPGFSNTSSTDICR 180
 QY 181 PHQICNVVAIOPNAMDAVCTSPTRSMAGAVHLQPQVSTRSQHTQPPPEPSTAPSTS 240
 Db 181 PHQICNVVAIOPNAMDAVCTSPTRSMAGAVHLQPQVSTRSQHTQPPPEPSTAPSTS 240
 QY 241 FLLPMGPSPPAEGSTGDFALPGVLIVGTQVTAIGLITGVNCVIMTQVKKFCLOREAKV 300
 Db 241 FLLPMGPSPPAEGSTGDFALPGVLIVGTQVTAIGLITGVNCVIMTQVKKFCLOREAKV 300
 QY 301 PHLPADKARGTQGPQHQLLITAPSSSSLESSASALDRRAPTRNQPOAQFVEASGAGE 360
 Db 301 PHLPADKARGTQGPQHQLLITAPSSSSLESSASALDRRAPTRNQPOAQFVEASGAGE 360
 QY 361 ARASTGSSDSSPQGGHOTQVNWCIVNCVSSSDHSSQSSQASSTNGDTDSSPSESPKDEQ 420
 Db 361 ARASTGSSDSSPQGGHOTQVNWCIVNCVSSSDHSSQSSQASSTNGDTDSSPSESPKDEQ 420
 QY 421 VPFSEKECAFRSQLETPETLGSTEEBKPLPQVDPAGMKPS 461
 Db 421 VPFSEKECAFRSQLETPETLGSTEEBKPLPQVDPAGMKPS 461

RESULT 3
 US-08-477-347-3
 ; Sequence 3, Application US/08477347
 ; Patent No. 6232446
 ; GENERAL INFORMATION:
 ; APPLICANT: WALLACH, David
 ; APPLICANT: BIGDA, Jacek
 ; APPLICANT: BELETSKY, Igor
 ; APPLICANT: METT, Igor
 ; TITLE OF INVENTION: TNF LIGANDS
 ; NUMBER OF SEQUENCES: 17
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: BROWDY AND NEIMARK
 ; STREET: 419 Seventh Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20004
 ; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/477,347
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/115,685
 FILING DATE:
 PRIOR APPLICATION NUMBER: IL 106271
 FILING DATE: 0-JUL-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Townsend, G. Kevin
 REGISTRATION NUMBER: 34,033
 REFERENCE/DOCKET NUMBER: WALLACH-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-688-5197
 TELEX: 248633
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 461 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-477-347-3

Query Match 100.0% Score 2468; DB 4; Length 461;

Best Local Similarity 100.0% Pred. No. 5.7e-173;
 Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAPVAAWAAAVGLEIWAHHALPAQVATPYAPEGSTCRLEYDQTAMCCSKCSPG 60
 Db 1 MAPVAAWAAAVGLEIWAHHALPAQVATPYAPEGSTCRLEYDQTAMCCSKCSPG 60

Qy 61 QHAKVFCFTKTSDFYCDSCDSTYTYLQWNNPECLGSRCSSDQVETOACTREQNRTCTC 120
 Db 61 QHAKVFCFTKTSDFYCDSCDSTYTYLQWNNPECLGSRCSSDQVETOACTREQNRTCTC 120

Qy 121 RPGWYCALSKOEGCRICAPLKRCRGFGVARPGETSDVYCKPCAPGTFSNTSSTDICR 180
 Db 121 RPGWYCALSKOEGCRICAPLKRCRGFGVARPGETSDVYCKPCAPGTFSNTSSTDICR 180

Qy 181 PHQICNVVAIPGNAAMDAVCTSTSPPRSMAPGVILQPVSTSRTQTPEPSTAPSTS 240
 Db 181 PHQICNVVAIPGNAAMDAVCTSTSPPRSMAPGVILQPVSTSRTQTPEPSTAPSTS 240

Qy 241 FLPLMGPSPPAEGSTGDFALPVGLIYGVTALGLLIGVNYCIMTOVKKKPLCLOREAKV 300
 Db 241 FLPLMGPSPPAEGSTGDFALPVGLIYGVTALGLLIGVNYCIMTOVKKKPLCLOREAKV 300

Qy 301 PHLPDAKARSTQGPQQHLLITAPSSSSLESSASALDRAPTRNQDQAPGVESGAGE 360
 Db 301 PHLPDAKARSTQGPQQHLLITAPSSSSLESSASALDRAPTRNQDQAPGVESGAGE 360

Qy 361 ARASTGSSDSSPQGGHTQVNNTVCIVNCSSSDHSQCSQASSTMGDTSSPESPKDEQ 420
 Db 361 ARASTGSSDSSPQGGHTQVNNTVCIVNCSSSDHSQCSQASSTMGDTSSPESPKDEQ 420

Qy 421 VPSKEECAFRSQQLETPETLGSTEKEPLBLGVFDAGMKPS 461
 Db 421 VPSKEECAFRSQQLETPETLGSTEKEPLBLGVFDAGMKPS 461

RESULT 4
 US-08-477-347-2 ; Sequence 2, Application US/08476862
 ; Patent No. 6262239 ; GENERAL INFORMATION:
 ADDRESSEE: BROWDY AND NEIMARK
 STREET: 419 Seventh Street, N.W.
 CITY: Washington
 STATE: D.C.
 ZIP: 20004
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/476,862
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IL 107267
 FILING DATE: 12-OCT-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 94039
 FILING DATE: 06-APR-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IL 91229
 FILING DATE: 06-AUG-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IL 90339
 FILING DATE: 18-MAY-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: BROWDY, Roger L.
 REGISTRATION NUMBER: 25,618
 REFERENCE/DOCKET NUMBER: WALLACH-12A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-628-5197
 TELEX: 202-737-3538
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 461 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-477-347-3

Query Match 100.0% Score 2468; DB 4; Length 461;
 Best Local Similarity 100.0% Pred. No. 5.7e-173;
 Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MAPVAAWAAAVGLEIWAHHALPAQVATPYAPEGSTCRLEYDQTAMCCSKCSPG 60
 Db 1 MAPVAAWAAAVGLEIWAHHALPAQVATPYAPEGSTCRLEYDQTAMCCSKCSPG 60
 Qy 61 QHAKVFCFTKTSDFYCDSCDSTYTYLQWNNPECLGSRCSSDQVETOACTREQNRTCTC 120
 Db 61 QHAKVFCFTKTSDFYCDSCDSTYTYLQWNNPECLGSRCSSDQVETOACTREQNRTCTC 120
 Qy 121 RPGWYCALSKOEGCRICAPLKRCRGFGVARPGETSDVYCKPCAPGTFSNTSSTDICR 180
 Db 121 RPGWYCALSKOEGCRICAPLKRCRGFGVARPGETSDVYCKPCAPGTFSNTSSTDICR 180
 Qy 181 PHQICNVVAIPGNAAMDAVCTSTSPPRSMAPGVILQPVSTSRTQTPEPSTAPSTS 240
 Db 181 PHQICNVVAIPGNAAMDAVCTSTSPPRSMAPGVILQPVSTSRTQTPEPSTAPSTS 240
 Qy 181 PHQICNVVAIPGNAAMDAVCTSTSPPRSMAPGVILQPVSTSRTQTPEPSTAPSTS 240
 Db 181 PHQICNVVAIPGNAAMDAVCTSTSPPRSMAPGVILQPVSTSRTQTPEPSTAPSTS 240
 Qy 241 FILPMGPSPPAEGSTGDFALPVGLIYGVTALGLLIGVNYCIMTOVKKKPLCLOREAKV 300
 Db 241 FILPMGPSPPAEGSTGDFALPVGLIYGVTALGLLIGVNYCIMTOVKKKPLCLOREAKV 300

RESULT 6
 US-09-042-785A-7
 ; Sequence 7, Application US/09042785A
 ; Patent No. 619151
 GENERAL INFORMATION:
 ; APPLICANT: Busfield, Samantha J
 ; TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
 ; NUMBER OF SEQUENCES: 31
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: LAHIVE & COCKFIELD, LLP
 ; STREET: 28 State Street
 ; CITY: Boston
 ; STATE: Massachusetts
 ; COUNTRY: USA
 ; ZIP: 02109
 COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
; COMPUTER: IBM PC compatible
APPLICATION NUMBER: US/09/042,785A
FILING DATE: 17-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/938,896
FILING DATE: 26-SEP-1997
ATTORNEY/AGENT INFORMATION:
NAME: Mandragoras, Amy E
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: MEI-001CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-2114
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 461 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-09-042-785A-7

Query Match 99.8%; Score 2462; DB 4; Length 461;
Best Local Similarity 99.8%; Pred. No. 1, 6e-172;
Matches 460; Conservative 0; Indels 1; Gaps 0;

Qy 1 MAPVAWAALAVGLELWAIAHALPAQVAFAYAPEGSTCRLEYDQATMCCSKCSPG 60
Db 1 MAPVAWAALAVGLELWAIAHALPAQVAFAYAPEGSTCRLEYDQATMCCSKCSPG 60

Qy 61 QHAKVCTKTSVTCDSCEDSTYTOIWNWPECLSGSRCSQDVETQACTREONRICC 120
Db 61 QHAKVCTKTSVTCDSCEDSTYTOIWNWPECLSGSRCSQDVETQACTREONRICC 120

Qy 121 RPGWICALSKQEGCRICAPLKCRPQFGVARPGTETSDVYKPCAPGTFSNTTSSDICR 180
Db 121 RPGWICALSKQEGCRICAPLKCRPQFGVARPGTETSDVYKPCAPGTFSNTTSSDICR 180

Qy 181 PHQICNVVAFGNAMDAVCTSTSPTRSMAGAVHLQPQYSTRSQHTQPEPSTAPSTS 240
Db 181 PHQICNVVAFGNAMDAVCTSTSPTRSMAGAVHLQPQYSTRSQHTQPEPSTAPSTS 240

Qy 241 FLLPMGSPSPPAEGSTGDFALPGLITGVTAIGLITGVIMTQVKKKPLCLQREAKV 300
Db 241 FLLPMGSPSPPAEGSTGDFALPGLITGVTAIGLITGVIMTQVKKKPLCLQREAKV 300

Qy 301 PHLPADKARGTQGPEQHLLITAPSSSSLESSALDRAPTRNQOAPGVEASAGE 360
Db 301 PHLPADKARGTQGPEQHLLITAPSSSSLESSALDRAPTRNQOAPGVEASAGE 360

Qy 361 ARASTGSSDSSPQGGHGTQVNNTCIVNCSSSDHSSQCSQSASSTNGDTDSPPSESPKDEQ 420
Db 361 ARASTGSSDSSPQGGHGTQVNNTCIVNCSSSDHSSQCSQSASSTNGDTDSPPSESPKDEQ 420

Qy 421 VPFSEKECAFFSQLETPETLIGSTEAKPLPJVDPAGMKPS 461
Db 421 VPFSEKECAFFSQLETPETLIGSTEAKPLPJVDPAGMKPS 461

Qy 421 VPFSEKECAFFSQLETPETLIGSTEAKPLPJVDPAGMKPS 461
Db 421 VPFSEKECAFFSQLETPETLIGSTEAKPLPJVDPAGMKPS 461

RESULT 7
 US-09-006-353A-4
 ; Sequence 4 Application US/09006353A
 ; Patent No. 6261801
 ; GENERAL INFORMATION:
 ; APPLICANT: WEI, YING-FEI
 ; APPLICANT: YU, GUO-LIANG
 ; APPLICANT: GENTZ, REINER
 ; APPLICANT: RUBEN, STEVEN
 ; TITLE OF INVENTION: TUMOR NECROSIS FACTOR RECEPTOR 5
 ; NUMBER OF SEQUENCES: 26
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
 ; STREET: 9410 KEY WEST AVENUE
 ; CITY: ROCKVILLE
 ; STATE: MD
 ; ZIP: 20850
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/006, 353A
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BROOKS, ANDERS A
 ; REGISTRATION NUMBER: 36,373
 ; REFERENCE/DOCKET NUMBER: PF341
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (301) 309-8504
 ; TELEFAX: (301) 309-0512
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 461 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-006-353A-4

Query Match 99.8%; Score 2462; DB 4; Length 461;
 Best Local Similarity 99.8%; Pred. No. 1.6e-172;
 Matches 460; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MAPYAVVAAALAGLELWAAHALPAQVAAFTPAPEPGSTCRLEYYDOTAQMCCKSCSPG 60
 Db 1 MAPYAVVAAALAGLELWAAHALPAQVAAFTPAPEPGSTCRLEYYDOTAQMCCKSCSPG 60

Qy 61 QHAKVFCTKTSDFCDSCEDSYTQLNNWPECLSGSRCSDVQETOACTRQNRTCTC 120
 Db 61 QHAKVFCTKTSDFCDSCEDSYTQLNNWPECLSGSRCSDVQETOACTRQNRTCTC 120

Qy 121 RP6WYCALSKQEGCRLCAPLRKRCRGFQVARYPOTETSVDVCKCAPTFNSNTSSTDICR 180
 Db 121 RP6WYCALSKQEGCRLCAPLRKRCRGFQVARYPOTETSVDVCKCAPTFNSNTSSTDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAFPAVHLPOPVSRSQHTOPTPEPSTAPSTS 240
 Db 181 PHQICNVVAIPGNASRDAVCTSTSPTRSMAPGAVHLPOPVSRSQHTOPTPEPSTAPSTS 240

Qy 241 FLLPMGPSPPAEGSTGDFALPVGLIVTAIGLLIGVVNCVIMTQVKKKPLCLOREAKV 300
 Db 241 FLLPMGPSPPAEGSTGDFALPVGLIVTAIGLLIGVVNCVIMTQVKKKPLCLOREAKV 300

Qy 301 PHLPADKARSTQGPEQHQHLLITAPSSSSLESSASALDRAPTRNQPOAPGVVEASGAGE 360
 Db 301 PHLPADKARSTQGPEQHQHLLITAPSSSSLESSASALDRAPTRNQPOAPGVVEASGAGE 360

Qy 361 ARASIGSDSSPQQGHGTQVNVTICINVCSSDHSOCSSQSASSTNGTDSSPSESPKDEQ 420
 Db 361 ARASIGSDSSPQQGHGTQVNVTICINVCSSDHSOCSSQSASSTNGTDSSPSESPKDEQ 420

Qy 421 VPFSEKBCAPRSQLETPETLGSTEKRPLPGVPDAGMKPS 461
 Db 421 VPFSEKBCAPRSQLETPETLGSTEKRPLPGVPDAGMKPS 461

RESULT 8
 US-08-650-000-4
 ; Sequence 4 Application US/08650000
 ; Patent No. 5945397
 ; GENERAL INFORMATION:
 ; APPLICANT: Smith, Craig A.
 ; APPLICANT: Goodwin, Raymond G.
 ; APPLICANT: Beckmann, M. Patricia
 ; TITLE OF INVENTION: Tumor Necrosis Factor Receptors
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Immunex Corporation
 ; STREET: 51 University Street
 ; CITY: Seattle
 ; STATE: Washington
 ; COUNTRY: U.S.A.
 ; ZIP: 98101
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/650,000
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/468,453
 ; FILING DATE:
 ; APPLICATION NUMBER: US/08/038,765
 ; FILING DATE:
 ; APPLICATION NUMBER: US 403,241
 ; FILING DATE: 05-SEP-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 405,370
 ; FILING DATE: 11-SEP-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 421,417
 ; FILING DATE: 13-OCT-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 523,635
 ; FILING DATE: 10-MAY-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wright, Christopher L.
 ; REGISTRATION NUMBER: 31,680
 ; REFERENCE/DOCKET NUMBER: 2301-D
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (206) 587-0430
 ; TELEFAX: (206) 233-0644
 ; INFORMATION FOR SEQ ID NO: 4:
 ; LENGTH: 474 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein

US-08-650-000-4

Query Match 61.3%; Score 1512; DB 2; Length 474;
Best Local Similarity 63.0%; Pred. No. 4.7e-103;

Matches 293; Conservative 50; Mismatches 114; Indels 8; Gaps 6;

Qy 1 MAPVAVAAALAVGLELWAHHALPAQVAFTPYPAPEGSTCRL -REYDQTAQMCCSKCSP 59
Db 1 MAPAALWALVFLQLNATGHEPAQVVLTPYKPEPYECQISQEYDRKAQMCCSKCSP 60

Qy 60 GOHAKVETKTISDTCSDCESTDYTOINWVPCLSGSRCSSDOVETQACTREQNRICT 119
Db 61 GQYVKHFCNKTSDTVCADCEASMYTQWNQFRTCILCSSSCTDQEVTRACTPKQNRVCA 120

Qy 120 CREGWYCALSKQEG -CRICAPLKRCRPEGFVARGTETSDVICKPCAPGTFSMTSSSTDI 178
Db 121 CEGRYCALKTHSGSCRCMRSLSKCGPFGVASSRAPNGNVLCKRACAPGTFSMTSSSTDV 180

Qy 179 CRPHQIONVVAIPGNASMDAVCTSTSPRSRMAPGAHLPOPYSTRSRSQHTQPTPEPSTAPS 238
Db 181 CRRHRICSTLAFGNASTDAVCAPESPSLA, PRTLYVSOPETRSQFLDQEFGPSQTSP - 239

Qy 239 TSFLLPMPGSPPPAGST -GDFALPVGLVITAGLLITGVNCVIMTQVKKPLCLORE 297
Db 240 -SILTSLGSTPLIEQSTKGGSIPQIUVGTVSLGLMLGYNCLIVYRKKKPKSCLORD 298

Qy 298 AKVPHLPDKAROTGQPOQHLLITAPSSLESSALDRAPTRNQOPQGV -EAS 356
Db 299 AKVPHVDEKSDQAVGLEQHQHLLITASSSSSLEASSAGDERAPPGHHPARVMSEAQ 358

Qy 357 GAGEARASTGSSDSSPQGHGTQVNCTVLCYNSSSDHSSQCSSQASSTMGDTDSSPSESP 416
Db 359 GFOEARASSRISPSHSHGHTHNVCTVNCVSSDIISSQCSQASATVGDDAKPSASP 418

Qy 417 KDEQVPESKEAFRSQLETPEUJLGSTEEKPLPLGYPDGMKPS 461
Db 419 KDEQVPESKECPQSOPCETEL -QSHEKPLPLGYPDGMKPS 461

RESULT 9

US-09-042-785A-8

; Sequence 8, Application US/09042785A

; Patent No. 6194151

; GENERAL INFORMATION:

; TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
; NUMBER OF SEQUENCES: 31

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lahive & Cockfield, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/042.785A

; FILING DATE: 17-MAR-1998

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 411,417

; FILING DATE: 13-OCT-1989

; APPLICATION NUMBER: 405,370

; FILING DATE: 11-SEP-1989

; APPLICATION NUMBER: 403,241

; FILING DATE: 05-SEP-1989

; SEQ ID NO: 4;

; LENGTH: 474

; NAME: Mandragouras, Amy E

; REGISTRATION NUMBER: 36,207

; REFERENCE/DOCKET NUMBER: MEI-001CP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 227-7400

; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 474 amino acids
TYPE: amino acid
TOPOLogy: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-09-042-785A-8

Query Match 61.3%; Score 1512; DB 4; Length 474;
Best Local Similarity 63.0%; Pred. No. 4.7e-103;

Matches 293; Conservative 50; Mismatches 114; Indels 8; Gaps 6;

Qy 1 MAPYAWAALAVGLELWAHHALPAQVAFTPYPAPEGSTCRL -REYDQTAQMCCSKCSP 59
Db 1 MAPAALWALVFLQLNATGHEPAQVVLTPYKPEPYECQISQEYDRKAQMCCSKCSP 60

Qy 60 GOHAKVETKTISDTCSDCESTDYTOINWVPCLSGSRCSSDOVETQACTREQNRICT 119
Db 61 GQYVKHFCNKTSDTVCADCEASMYTQWNQFRTCILCSSSCTDQEVTRACTPKQNRVCA 120

Qy 120 CREGWYCALSKQEG -CRICAPLKRCRPEGFVARGTETSDVICKPCAPGTFSMTSSSTDI 178
Db 121 CEGRYCALKTHSGSCRCMRSLSKCGPFGVASSRAPNGNVLCKRACAPGTFSMTSSSTDV 180

Qy 179 CRPHQIONVVAIPGNASMDAVCTSTSPRSRMAPGAHLPOPYSTRSRSQHTQPTPEPSTAPS 238
Db 181 CRRHRICSTLAFGNASTDAVCAPESPSLA, PRTLYVSOPETRSQFLDQEFGPSQTSP - 239

Qy 239 TSFLLPMPGSPPPAGST -GDFALPVGLVITAGLLITGVNCVIMTQVKKPLCLORE 297
Db 240 -SILTSLGSTPLIEQSTKGGSIPQIUVGTVSLGLMLGYNCLIVYRKKKPKSCLORD 298

Qy 298 AKVPHLPDKAROTGQPOQHLLITAPSSLESSALDRAPTRNQOPQGV -EAS 356
Db 299 AKVPHVDEKSDQAVGLEQHQHLLITASSSSSLEASSAGDERAPPGHHPARVMSEAQ 358

Qy 357 GAGEARASTGSSDSSPQGHGTQVNCTVLCYNSSSDHSSQCSSQASSTMGDTDSSPSESP 416
Db 359 GFOEARASSRISPSHSHGHTHNVCTVNCVSSDIISSQCSQASATVGDDAKPSASP 418

Qy 417 KDEQVPESKEAFRSQLETPEUJLGSTEEKPLPLGYPDGMKPS 461
Db 419 KDEQVPESKECPQSOPCETEL -QSHEKPLPLGYPDGMKPS 461

Query Match 61.3%; Score 1512; DB 6; Length 474;
Best Local Similarity 63.0%; Pred. No. 4.7e-103;

Matches 293; Conservative 50; Mismatches 114; Indels 8; Gaps 6;

Qy 1 MAPYAWAALAVGLELWAHHALPAQVAFTPYPAPEGSTCRL -REYDQTAQMCCSKCSP 59
Db 1 MAPAALWALVFLQLNATGHEPAQVVLTPYKPEPYECQISQEYDRKAQMCCSKCSP 60

Qy 60 GOHAKVETKTISDTCSDCESTDYTOINWVPCLSGSRCSSDOVETQACTREQNRICT 119
Db 61 GQYVKHFCNKTSDTVCADCEASMYTQWNQFRTCILCSSSCTDQEVTRACTPKQNRVCA 120

Qy 120 CREGWYCALSKQEG -CRICAPLKRCRPEGFVARGTETSDVICKPCAPGTFSMTSSSTDI 178
Db 121 CEGRYCALKTHSGSCRCMRSLSKCGPFGVASSRAPNGNVLCKRACAPGTFSMTSSSTDV 180

Qy 179 CRPHQIONVVAIPGNASMDAVCTSTSPRSRMAPGAHLPOPYSTRSRSQHTQPTPEPSTAPS 238
Db 181 CRRHRICSTLAFGNASTDAVCAPESPSLA, PRTLYVSOPETRSQFLDQEFGPSQTSP - 239

Qy 239 TSFLLPMPGSPPPAGST -GDFALPVGLVITAGLLITGVNCVIMTQVKKPLCLORE 297
Db 240 -SILTSLGSTPLIEQSTKGGSIPQIUVGTVSLGLMLGYNCLIVYRKKKPKSCLORD 298

Qy 298 AKVPHLPDKAROTGQPOQHLLITAPSSLESSALDRAPTRNQOPQGV -EAS 356
Db 299 AKVPHVDEKSDQAVGLEQHQHLLITASSSSSLEASSAGDERAPPGHHPARVMSEAQ 358

Qy 357 GAGEARASTGSSDSSPQGHGTQVNCTVLCYNSSSDHSSQCSSQASSTMGDTDSSPSESP 416
Db 359 GFQEVARASSRISDSHSGSGTHNVCTVNCVSSDIISSQCSQASATVGDPDAKPSASP 418

Qy 417 KDEQVPESKEAFRSQLETPEUJLGSTEEKPLPLGYPDGMKPS 461
Db 419 KDEQVPESKECPQSOPCETEL -QSHEKPLPLGYPDGMKPS 461

Query Match 61.3%; Score 1512; DB 6; Length 474;
Best Local Similarity 63.0%; Pred. No. 4.7e-103;

Matches 293; Conservative 50; Mismatches 114; Indels 8; Gaps 6;

Qy 1 MAPYAWAALAVGLELWAHHALPAQVAFTPYPAPEGSTCRL -REYDQTAQMCCSKCSP 59
Db 1 MAPAALWALVFLQLNATGHEPAQVVLTPYKPEPYECQISQEYDRKAQMCCSKCSP 60

Qy 60 GOHAKVETKTISDTCSDCESTDYTOINWVPCLSGSRCSSDOVETQACTREQNRICT 119
Db 61 GQYVKHFCNKTSDTVCADCEASMYTQWNQFRTCILCSSSCTDQEVTRACTPKQNRVCA 120

Qy 120 CREGWYCALSKQEG -CRICAPLKRCRPEGFVARGTETSDVICKPCAPGTFSMTSSSTDI 178
Db 121 CEGRYCALKTHSGSCRCMRSLSKCGPFGVASSRAPNGNVLCKRACAPGTFSMTSSSTDV 180

Qy 179 CRPHQIONVVAIPGNASMDAVCTSTSPRSRMAPGAHLPOPYSTRSRSQHTQPTPEPSTAPS 238
Db 181 CRRHRICSTLAFGNASTDAVCAPESPSLA, PRTLYVSOPETRSQFLDQEFGPSQTSP - 239

Qy 239 TSFLLPMPGSPPPAGST -GDFALPVGLVITAGLLITGVNCVIMTQVKKPLCLORE 297
Db 121 CEGRYCALKTHSGSCRCMRSLSKCGPFGVASSRAPNGNVLCKRACAPGTFSMTSSSTDV 180

Matches 293; Conservative 50; Mismatches 114; Indels 8; Gaps 6; LENGTH: 518 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-385-229-4

Query Match 58.1%; Score 1433; DB 1; Length 518;
 Best Local Similarity 64.5%; Pred. No. 3.1e-97;
 Matches 289; Conservative 22; Mismatches 67; Indels 70; Gaps 10;

Qy 60 GOHAKYECTKTSITSDTCDSCEDSTYTQLNWNNYFECILSGSRCSRSSDQEVTOACTREQNRICT 119
 Db 61 MAPAALWVALFELQWLWATGHTVPAQVLTPPKPEPOYECQSQEYIDRKAGMCCAKCPP 60

Qy 120 CRPGWICALSKQEG -CRLCAPILRKCRPGFGYARPGTETSDVVKCPAGTFSNTSSTDI 178
 Db 121 CEAAGRICALKTHSGSCRMRSKCGFEGYASSRAPNGVICKACAGPTFSDTTSSSTDV 180

Qy 179 CRPHQICNVVATPGNAMSMDAVCTSTSPEPSTRAVLPQVYSTRSRSQHTOPPEPSTAPS 238
 Db 181 CRPHRCISLAPLGPNASTDAVAPESPILSAIPRLIVSQQPPTRSPSLDQEPGPSPDTP- 239

Qy 239 TSFLLPMPGPSPAEGST-GDFALPVGLIVGVYALGLLIGVYNNCIMTQVKKPICLORE 297
 Db 240 -SILTSLGSTPLIEQSTKGGISLPIGLIVGVSLGLMLGLVNCITLVQRKKPSCLQRD 298

Qy 298 AKVPHLPADKARGTQGPQEQQHLLITAPSSSSLESSASALDRAPTRNQPAPGV-EAS 356
 Db 299 AKVPHYPDEKSQDAYSQVLEQOHQLLTAPSSSSLESSASAGDRRAFPGGHPQARVMAEAQ 358

Qy 357 GAGEARASTGSDDSPGGHGTQCVNTCIVNYCQSSDHSQSSQASSTMGDTDSPSESP 416
 Db 359 GFEQEARASSRISDSHSHRGTHVNVYQSSSDISQCSQASATVGDDAKPSASP 418

Qy 417 KDEQVPPSKKECAFERSQLETPETLIGSTEKEPLPLGYPDAGMKPS 461
 Db 419 KDEQVPPSKKECAFERSQLETPETLIGSTEKEPLPLGYPDGMKPS 461

RESULT 11
 US-08-385-229-4 ; Sequence 4, Application US/08385229
 ; GENERAL INFORMATION:
 ; APPLICANT: Jacobs, Cindy A.
 ; ATTORNEY/AGENT INFORMATION:
 ; CITY: Seattle
 ; STATE: Washington
 ; ZIP: 98101
 ; COUNTRY: U.S.A.
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/385, 229
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/946, 236
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wight, Christopher L.
 ; REGISTRATION NUMBER: 31,680
 ; REFERENCE/DOCKET NUMBER: 2503
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (206) 587-0430
 ; TELEX/FAX: (206) 587-0606
 ; INFORMATION FOR SEQ ID NO: 4 :
 ; SEQUENCE CHARACTERISTICS:

RESULT 12
 US-08-243-010-1 ; Sequence 1, Application US/08243010
 ; Patent No. 5639597
 ; GENERAL INFORMATION:
 ; APPLICANT: Laffer, Leander
 ; ADDRESS: Zeitmeissel, Gerd
 ; APPLICANT: Ogundo, Patricia
 ; TITLE OF INVENTION: Cell-free Receptor Binding Assays, The
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
 ; STREET: 11300 I Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20005-3315
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/385, 229
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wight, Christopher L.
 ; REGISTRATION NUMBER: 31,680
 ; REFERENCE/DOCKET NUMBER: 2503
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (206) 587-0430
 ; TELEX/FAX: (206) 587-0606
 ; INFORMATION FOR SEQ ID NO: 4 :
 ; SEQUENCE CHARACTERISTICS:

APPLICATION NUMBER: US 07/798,564
 FILING DATE: 26-NOV-1991
 APPLICATION NUMBER: DE P 40 37 837.3
 ATTORNEY/AGENT INFORMATION:
 NAME: Einaudi, Carol P.
 REGISTRATION NUMBER: 32,220
 REFERENCE/DOCKET NUMBER: 02481-1132-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4000
 TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 486 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-243-010-1

Query Match 56.9%; Score 1404; DB 1; Length 486;
 Best Local Similarity 100%; Pred. No. 3.8e-05;
 Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

	Query	Match	Score	Length	DB	4;
Qy	1 MAPVAAWLAANGLEIWAIAAHALPAQVAFYTAPEPGSTCRLEYYDQTAQCCSKCSPG	60	53.2%	235;	Score	1312;
Db	1 MAPVAAWLAANGLEIWAIAAHALPAQVAFYTAPEPGSTCRLEYYDQTAQCCSKCSPG	60	99.6%	235;	Pred.	No. 8
Qy	61 QHAKVFCTKTSDTVDSCDSTYTOTLWNWVPECLSGSRCCSSDQVETQACTREQNRTCTC	120	2e-89;	235;	Mismatches	0;
Db	61 QHAKVFCTKTSDTVDSCDSTYTOTLWNWVPECLSGSRCCSSDQVETQACTREQNRTCTC	120	1	235;	Indels	0;
Qy	121 RPGWYCALSKDEGCRCLAPLKCRPFGVAPRGTESDVYKPCAGTFNSNTSSNDICR	180	0;	235;	Gaps	0;
Db	121 RPGWYCALSKDEGCRCLAPLKCRPFGVAPRGTESDVYKPCAGTFNSNTSSNDICR	180	0;	235;		
Qy	181 PHQICNVVAIGNAMDAVCTSTSPTSMAGAVHLQPQPVSTRSQHTQPTPEPSTAPS	240	0;	235;		
Db	181 PHQICNVVAIGNAMDAVCTSTSPTSMAGAVHLQPQPVSTRSQHTQPTPEPSTAPS	240	0;	235;		
Qy	241 FLLPMGPSPPAE 252	0;	0;	235;		
Db	241 FLLPMGPSPPAE 252	0;	0;	235;		

RESULT 13
 US-09-326-394-4
 Sequence 4, Application US/09326394
 Patent No. 6306820

GENERAL INFORMATION:
 APPLICANT: Beneile, Alison M.
 APPLICANT: Sennello, Regna M.
 APPLICANT: Edwards, Carl K.
 TITLE OF INVENTION: COMBINATION THERAPY USING A TNF BINDING PROTEIN FOR TREATING TNF-MEDIATED DISEASES
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Amgen Inc.
 STREET: 1840 DeHavilland Drive
 CITY: Thousand Oaks
 STATE: CA
 COUNTRY: US
 ZIP: 91320-1789

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/326,394
 FILING DATE: 08-DEC-1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 60/032,587
 FILING DATE: 06-DEC-1996
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 60/036,355
 FILING DATE: 23-JAN-1997
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 60/039,315
 FILING DATE: 07-FEB-1997
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 60/052,023
 FILING DATE: 09-JUL-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Zindrick, Thomas K.
 REGISTRATION NUMBER: 32,185
 REFERENCE/DOCKET NUMBER: A-430D
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 235 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-326-394-4

Query Match 53.2%; Score 1312; DB 4;
 Best Local Similarity 99.6%; Pred. No. 8 2e-89;
 Matches 234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

	Query	Match	Score	Length	DB	4;
Qy	23 LPQAQVFTPYAPEGSTCRLEYYDQTAQMCCKSCSPGQHAKVFCTKTSDTVDSCDST	82	0;	235;		
Db	1 LPQAQVFTPYAPEGSTCRLEYYDQTAQMCCKSCSPGQHAKVFCTKTSDTVDSCDST	60	0;	235;		
Qy	83 YTQLWNWVPECLSGSRCSSDQVETQACTREQNRTCTCPGWYCALSKQEGCRCLAPLRK	142	0;	235;		
Db	61 YTQLWNWVPECLSGSRCSSDQVETQACTREQNRTCTCPGWYCALSKQEGCRCLAPLRK	120	0;	235;		
Qy	143 CRPGFVARPGTESDVYKPCAGTFNSNTSSNDICRPHQICNVVAIPGNASMDAVCTS	202	0;	235;		
Db	121 CRPGFVARPGTESDVYKPCAGTFNSNTSSNDICRPHQICNVVAIPGNASMDAVCTS	180	0;	235;		
Qy	203 TSPTRSMAPGAVHLQPQPVSTRSOHQTPTEPSTAPSSTSFLLPMGPSPPAEGSTGD	257	0;	235;		
Db	181 TSPTRSMAPGAVHLQPQPVSTRSOHQTPTEPSTAPSSTSFLLPMGPSPPAEGSTGD	235	0;	235;		

RESULT 14
 US-08-974-022-48
 Sequence 48, Application US/08974022
 Patent No. 6015948

GENERAL INFORMATION:
 APPLICANT: Boyle, William J.
 APPLICANT: Lacey, David L.
 APPLICANT: Calzone, Frank J.
 APPLICANT: Chang, Ming Shi
 TITLE OF INVENTION: OSTEOPROTEGERIN
 NUMBER OF SEQUENCES: 53
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Amgen Inc.
 STREET: 1840 DeHavilland Drive
 CITY: Thousand Oaks
 STATE: California
 COUNTRY: USA
 ZIP: 91320-1789

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/974,022
 FILING DATE: 12-DEC-1995
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:

APPLICATION NUMBER: 08/577,788
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Winter, Robert B.
 REFERENCE/DOCKET NUMBER: A-378
 SEQUENCE CHARACTERISTICS:
 LENGTH: 227 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein

Query Match Score 1263; DB 4; Length 227;
 Best Local Similarity 99.68%; Pred. No. 3e-85;
 Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 US-08-795-445A-48

Query Match Score 1263; DB 4; Length 227;
 Best Local Similarity 99.68%; Pred. No. 3e-85;
 Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Query Match Score 51.2%; DB 4; Length 227;
 Best Local Similarity 99.68%; Pred. No. 3e-85;
 Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MAPVAVAAALAVGLEWAAAHALPAQVAFPTVAPEPGSTCRLEYDQTAQMCCSKCSPG 60
 Db 1 MAPVAVAAALAVGLEWAAAHALPAQVAFPTVAPEPGSTCRLEYDQTAQMCCSKCSPG 60

Qy 1 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Db 1 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

Qy 61 QHAKVFCFTKTSDFVCDSEDTSYTQLWNWVPECLSCGSRCSSDQVETQACTREQNRTIC 120
 Db 61 QHAKVFCFTKTSDFVCDSEDTSYTQLWNWVPECLSCGSRCSSDQVETQACTREQNRTIC 120

Qy 61 RPGWYCALSKQEGCRCLCAPLRKCRPGFGVARPGTETS D VCKPCAPGTFSNTSSTDICR 180
 Db 61 RPGWYCALSKQEGCRCLCAPLRKCRPGFGVARPGTETS D VCKPCAPGTFSNTSSTDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAHVLPQPVSTRSQHT 227
 Db 181 PHQICNVVAIPGNASRDAVCTSTSPTRSMAPGAHVLPQPVSTRSQHT 227

Search completed: August 21, 2002, 09:54:05
 Job time: 53 sec

RESULT 3
I70082 glycoprotein Ib alpha variant B - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 20-Aug-1999
C;Accession: I70082
R;Lopez, J.A.; Ludwig, E.H.; McCarthy, B.J.
J. Biol. Chem. 267, 10055-10061, 1992
A;Title: Polymorphism of human glycoprotein Ib alpha results from a variable number of mutations.
A;Reference number: I55355; MUID:92250564
A;Accession: I70082
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-42 <RES>
A;Cross-references: GB:S34439; NID:9249178; PID:NAB22153.1; PID:9249179
C;Superfamily: Platelet glycoprotein Ib alpha chain; leucine-rich alpha-2-glycoprotein
C;Keywords: glycoprotein

Query Match 18.4%; Score 55.5; DB 2; Length 42;
Best Local Similarity 35.6%; Pred. No. 54;
Matches 16; Conservative 6; Mismatches 18; Indels 5; Gaps 3;

Qy 5 PTRSMAPGAVHLPOPVSTRSQHTQPTPEPSTAPSTSFLLPGPSP 49
Db 2 PTSEFAPSPT-TPEPTSEFAP-SPTPEPTSEFAP--PTPEP 41

RESULT 4
I40692 cana protein (IgAlh) - Cellulomonas fimi (fragment)
C;Species: Cellulomonas fimi
C;Date: 12-Aug-1996 #sequence_revision 12-Aug-1996 #text_change 22-Oct-1999
R;Miller, P.B.; Shen, H.; Gilkes, N.R.; Kilburn, D.G.; Miller, R.C.; Plaut, A.G.; Warren PEMS Microbiol. Lett. 92, 199-204, 1992
A;Title: Endoglucanase A from Cellulomonas fimi in which the hinge sequence of human IgA
A;Reference number: I40692
A;Accession: I40692
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-25 <RES>
A;Cross-references: EMBL:X65780; NID:g312035; PID:CAA46663.1; PID:g312036

Query Match 16.9%; Score 51; DB 2; Length 25;
Best Local Similarity 46.2%; Pred. No. 79;
Matches 12; Conservative 1; Mismatches 5; Indels 8; Gaps 1;

Qy 24 SQHTQPTPEPSTAPSTSFLLPGPSP 49
Db 2 SVSTPPPTSEPTPPT-----PSP 19

RESULT 5
S07073 arabinogalactan protein - Italian ryegrass (fragments)
C;Species: Lolium multiflorum (Italian ryegrass)
C;Date: 21-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 05-Dec-1998
R;Gleeson, P.A.; McNamara, M.; Wettenhall, R.E.H.; Stone, B.A.; Fincher, G.B.
Biochem. J. 264, 857-862, 1989
A;Title: Characterization of the hydroxyproline-rich protein core of an arabinogalactan-
A;Reference number: S07073; MUID:90147544
A;Accession: S07073
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-46 <GLE>
A;Note: 19-His and 23-Leu were also found

Query Match 16.7%; Score 50; DB 2; Length 46;
Best Local Similarity 37.1%; Pred. No. 1.8e+02;
Matches 13; Conservative 4; Mismatches 16; Indels 2; Gaps 1;

Qy 17 PQPVSTRSQHTQPTPEPSTAPSTSFLLPGPSP 51
Db 6 PPAPAPAPAPVPEASTAPYAA--PTTXPSPPA 38

RESULT 6
T36022 small hypothetical protein SCC54.09c - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999
C;Accession: T36022
R;Seeger, K.; Harris, D.; Bentley, S.D.; Barrell, B.G.; Rajandream, M.A.
submitted to the EMBL Data Library, March 1999
A;Reference number: 221581
A;Accession: T36022
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-31 <SEE>
A;Cross-references: EMBL:AI035591; PIDN:CAB38139.1; GSPDB:GN00070; SCOEDB :SCC54.09c
A;Experimental source: strain A3(2)
C;Genetics: ..
A;Gene: SCOEDB:SCC54.09c

Query Match 15.6%; Score 47; DB 2; Length 31;
Best Local Similarity 30.4%; Pred. No. 2.2e+02;
Matches 7; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

Qy 19 PVSTRSQHTQPTPEPSTAPSTSFL 41
Db 2 PLAARNEDNEPVPAPIWVTGCF 24

RESULT 7
S10782 salivary protein P-B - bovine (fragment)
C;Species: Bos primigenius tauris (cattle)
C;Accession: S10782
R;Strawich, B.; Glimcher, M.J.
Bur. J. Biochem. 191, 47-56, 1990
A;Title: Tooth enamelins, identified mainly as serum proteins. Major 'enamelin' is a
A;Reference number: S10780; MUID:90336641
A;Accession: S10782
A;Molecule type: protein
A;Residues: 1-57 <STR>
C;Superfamily: proline-rich peptide P-B

Query Match 14.7%; Score 44.5; DB 2; Length 57;
Best Local Similarity 28.8%; Pred. No. 6.9e+02;
Matches 15; Conservative 2; Mismatches 28; Indels 7; Gaps 2;

Qy 5 PTRSMAPGAVHLPOPVSTRSQHTQPTPEPSTAPSTSFLLPGPSP 56
Db 4 PRGPVPPGPIAPPQPRG--PGFVPPPPVPGPR----FPPPPFDPYGP 48

RESULT 8
S16587 hypothetical protein 1 - lamb's-quarters
C;Species: Chenopodium album (lamb's-quarters)
C;Date: 21-Nov-1993 #sequence_revision 26-May-1995
C;Accession: S16587
R;Doerfel, P.; Weihe, A.; Dolferus, R.; Boerner, T.

Plant Mol. Biol. 17, 155-156, 1991
 Article title: DNA sequence of a mitochondrial plasmid from Chenopodium album
 Article reference number: S16587; MUID:91129724
 Accession: S1657
 Status: preliminary; translation not shown
 Molecule type: DNA
 Residues: 1-57 <DB>
 Cross-references: EMBL:x58911

Query Match 14.7%; Score 44.5; DB 2; Length 57;
 Best Local Similarity 34.2%; Pred. No. 6.9e+02;
 Matches 13; Conservative 6; Mismatches 18; Indels 1; Ga

Qy 16 LPPVSTRSQHTQPTPPEPSTAPSTSFLIPGSPSPPAEG 53
 Db 21 LPWLRLLTFRRVF-PDPSQANENHSLSNPPSAAVG 57

RESULT 9

I56139
 IMMC class I HLA-J antigen - human
 C:Species: Homo sapiens (man)
 C:Accession: 02-Jul-1996 #text_change 23-Jul-1996
 C:Accession: 156139; I72807
 R:R:Messer, G.; Zemmour, J.; Orr, H.T.; Parham, P.; Weiss, E.H.; Girdlestone, J.; Immunol. 148, 4043-4053, 1992
 A:Title: HLA-J, a second inactivating class I HLA gene related to HLA-G
 A:Reference number: 156139; MUID:92291530
 A:Accession: 156139
 A:Status: preliminary; translated from GB/EMBL/DDJB
 A:Molecule type: DNA
 A:Residues: 1-28 <RES>
 A:Cross-references: GB:MB0468; NID:g188481; PIDN:AAA36306.1; PID:g18848
 A:Accession: I72807
 A:Status: preliminary; translated from GB/EMBL/DDJB
 A:Molecule type: DNA
 A:Residues: 1-28 <RES>
 A:Cross-references: GB:MB0469; NID:g188483; PIDN:AAA36307.1; PID:g18848
 C:Genetics:
 C:Superfamily: class I histocompatibility antigen; immunoglobulin homolog
 C:Keywords: 24/3

Query Match 14.6%; Score 44; DB 2; Length 28;
 Best Local Similarity 40.9%; Pred. No. 3.7e+02;
 Matches 9; Conservative 3; Mismatches 10; Indels 0; Ga

Qy 17 PQPVSTRSQHTQPTPPEPSTAPS 38
 Db 6 PEPSGCCSRGPWPWPRGRAPT 27

RESULT 10

S32108
 sepiapterin reductase (EC 1.1.1.153) - mouse
 C:Species: Mus musculus (house mouse)
 C:Accession: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 12-Sep-1993
 R:R:Maier, J.
 A:Accession: S32108
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-47 <MAI>
 A:Cross-references: EMBL:221947
 C:Keywords: oxidoreductase

Query Match 14.4%; Score 43.5; DB 2; Length 47;
 Best Local Similarity 39.3%; Pred. No. 6.9e+02;
 Matches 11; Conservative 3; Mismatches 13; Indels 1; Ga

Qy	20	VSTRSQTQPTPEPSTAPSTSFLPLMGP	47	
Db	14	VSGLKSHSPPAHP-TTSAVCSLTGDP	40	
		RESULT 11		
D81737		hypothetical protein TC0127 [imported] - Chlamydia muridarum (strain Nigg)		
C;Species:	Chlamydia muridarum, Chlamydia trachomatis MoPn			
C;Date:	31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 11-May-2000			
C;Accession:	D81737			
R;Read,	T.D.; Brinham, R.C.; Shen, C.; Gill, S.R.; Heidelberg, J.F.; White, O.; Hickey, C.; Dodson, R.; Gwinn, M.; Nelson, W.; DeBoy, R.; Kolonay, J.; McElroy, G.; Salzberg, S.C.; Roskin, K.M.; Sutton, G.; Fleischman, S.A.; Kerlavage, A.R.; Sutton, G.			
Nucleic Acids Res.	28, 1397-1406, 2000			
A;Title:	Genome sequences of Chlamydia trachomatis MoPn and Chlamydia pneumoniae AR39			
A;Reference number:	A81500; MUID:20150255			
A;Accession:	D81737			
A;Status:	preliminary			
A;Molecule type:	DNA			
A;Residues:	1-154 <TET>			
A;Cross references:	GB:AE002280; GB:AE002160; NID:97190162; PIDN:AAF39005.1; PID:9719			
A;Experimental source:	strain Nigg (MoPn)			
C;Genetics:				
A;Gene:	TC0127			
		RESULT 12		
Query	Match	Score	Length	
Qy	28	QPTPEPSTAPSTSFLPLMGPSPPAEGST	55	
Db	4	QPSKKPSQASSLS-LKGDDPAPPSSGRAT	30	
		Query Match Score 43.5; DB 2; Length 54;		
Best Local Similarity	42.9%	Pred. No.	7.9e+02;	
Matches	12;	Mismatches	10;	Indels 1; Gaps 1;
Conservative	5;			
		RESULT 12		
I54515		Ig lambda-like omega light chain (non-rearranging) IGLL2 - human (fragment)		
C;Species:	Homo sapiens (man)			
C;Date:	01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 23-Jul-1999			
C;Accession:	I54515			
R;Bauer, T.R.; McDermid, H.E.; Budarf, M.L.; Van Keuren, M.L.; Bloomberg, B.B.				
Immunogenetics	38, 387-399, 1993			
A;Title:	Physical location of the human immunoglobulin lambda-like genes, 14.1, 16.1, 18.1, 22.1, 23.1, 24.1, 25.1, 26.1, 27.1, 28.1, 29.1, 30.1, 31.1, 32.1, 33.1, 34.1, 35.1, 36.1, 37.1, 38.1, 39.1, 40.1, 41.1, 42.1, 43.1, 44.1, 45.1, 46.1, 47.1, 48.1, 49.1, 50.1, 51.1, 52.1, 53.1, 54.1, 55.1, 56.1, 57.1, 58.1, 59.1, 60.1, 61.1, 62.1, 63.1, 64.1, 65.1, 66.1, 67.1, 68.1, 69.1, 70.1, 71.1, 72.1, 73.1, 74.1, 75.1, 76.1, 77.1, 78.1, 79.1, 80.1, 81.1, 82.1, 83.1, 84.1, 85.1, 86.1, 87.1, 88.1, 89.1, 90.1, 91.1, 92.1, 93.1, 94.1, 95.1, 96.1, 97.1, 98.1, 99.1, 100.1, 101.1, 102.1, 103.1, 104.1, 105.1, 106.1, 107.1, 108.1, 109.1, 110.1, 111.1, 112.1, 113.1, 114.1, 115.1, 116.1, 117.1, 118.1, 119.1, 120.1, 121.1, 122.1, 123.1, 124.1, 125.1, 126.1, 127.1, 128.1, 129.1, 130.1, 131.1, 132.1, 133.1, 134.1, 135.1, 136.1, 137.1, 138.1, 139.1, 140.1, 141.1, 142.1, 143.1, 144.1, 145.1, 146.1, 147.1, 148.1, 149.1, 150.1, 151.1, 152.1, 153.1, 154.1, 155.1, 156.1, 157.1, 158.1, 159.1, 160.1, 161.1, 162.1, 163.1, 164.1, 165.1, 166.1, 167.1, 168.1, 169.1, 170.1, 171.1, 172.1, 173.1, 174.1, 175.1, 176.1, 177.1, 178.1, 179.1, 180.1, 181.1, 182.1, 183.1, 184.1, 185.1, 186.1, 187.1, 188.1, 189.1, 190.1, 191.1, 192.1, 193.1, 194.1, 195.1, 196.1, 197.1, 198.1, 199.1, 200.1, 201.1, 202.1, 203.1, 204.1, 205.1, 206.1, 207.1, 208.1, 209.1, 210.1, 211.1, 212.1, 213.1, 214.1, 215.1, 216.1, 217.1, 218.1, 219.1, 220.1, 221.1, 222.1, 223.1, 224.1, 225.1, 226.1, 227.1, 228.1, 229.1, 230.1, 231.1, 232.1, 233.1, 234.1, 235.1, 236.1, 237.1, 238.1, 239.1, 240.1, 241.1, 242.1, 243.1, 244.1, 245.1, 246.1, 247.1, 248.1, 249.1, 250.1, 251.1, 252.1, 253.1, 254.1, 255.1, 256.1, 257.1, 258.1, 259.1, 260.1, 261.1, 262.1, 263.1, 264.1, 265.1, 266.1, 267.1, 268.1, 269.1, 270.1, 271.1, 272.1, 273.1, 274.1, 275.1, 276.1, 277.1, 278.1, 279.1, 280.1, 281.1, 282.1, 283.1, 284.1, 285.1, 286.1, 287.1, 288.1, 289.1, 290.1, 291.1, 292.1, 293.1, 294.1, 295.1, 296.1, 297.1, 298.1, 299.1, 300.1, 301.1, 302.1, 303.1, 304.1, 305.1, 306.1, 307.1, 308.1, 309.1, 310.1, 311.1, 312.1, 313.1, 314.1, 315.1, 316.1, 317.1, 318.1, 319.1, 320.1, 321.1, 322.1, 323.1, 324.1, 325.1, 326.1, 327.1, 328.1, 329.1, 330.1, 331.1, 332.1, 333.1, 334.1, 335.1, 336.1, 337.1, 338.1, 339.1, 340.1, 341.1, 342.1, 343.1, 344.1, 345.1, 346.1, 347.1, 348.1, 349.1, 350.1, 351.1, 352.1, 353.1, 354.1, 355.1, 356.1, 357.1, 358.1, 359.1, 360.1, 361.1, 362.1, 363.1, 364.1, 365.1, 366.1, 367.1, 368.1, 369.1, 370.1, 371.1, 372.1, 373.1, 374.1, 375.1, 376.1, 377.1, 378.1, 379.1, 380.1, 381.1, 382.1, 383.1, 384.1, 385.1, 386.1, 387.1, 388.1, 389.1, 390.1, 391.1, 392.1, 393.1, 394.1, 395.1, 396.1, 397.1, 398.1, 399.1, 400.1, 401.1, 402.1, 403.1, 404.1, 405.1, 406.1, 407.1, 408.1, 409.1, 410.1, 411.1, 412.1, 413.1, 414.1, 415.1, 416.1, 417.1, 418.1, 419.1, 420.1, 421.1, 422.1, 423.1, 424.1, 425.1, 426.1, 427.1, 428.1, 429.1, 430.1, 431.1, 432.1, 433.1, 434.1, 435.1, 436.1, 437.1, 438.1, 439.1, 440.1, 441.1, 442.1, 443.1, 444.1, 445.1, 446.1, 447.1, 448.1, 449.1, 450.1, 451.1, 452.1, 453.1, 454.1, 455.1, 456.1, 457.1, 458.1, 459.1, 460.1, 461.1, 462.1, 463.1, 464.1, 465.1, 466.1, 467.1, 468.1, 469.1, 470.1, 471.1, 472.1, 473.1, 474.1, 475.1, 476.1, 477.1, 478.1, 479.1, 480.1, 481.1, 482.1, 483.1, 484.1, 485.1, 486.1, 487.1, 488.1, 489.1, 490.1, 491.1, 492.1, 493.1, 494.1, 495.1, 496.1, 497.1, 498.1, 499.1, 500.1, 501.1, 502.1, 503.1, 504.1, 505.1, 506.1, 507.1, 508.1, 509.1, 510.1, 511.1, 512.1, 513.1, 514.1, 515.1, 516.1, 517.1, 518.1, 519.1, 520.1, 521.1, 522.1, 523.1, 524.1, 525.1, 526.1, 527.1, 528.1, 529.1, 530.1, 531.1, 532.1, 533.1, 534.1, 535.1, 536.1, 537.1, 538.1, 539.1, 540.1, 541.1, 542.1, 543.1, 544.1, 545.1, 546.1, 547.1, 548.1, 549.1, 550.1, 551.1, 552.1, 553.1, 554.1, 555.1, 556.1, 557.1, 558.1, 559.1, 560.1, 561.1, 562.1, 563.1, 564.1, 565.1, 566.1, 567.1, 568.1, 569.1, 570.1, 571.1, 572.1, 573.1, 574.1, 575.1, 576.1, 577.1, 578.1, 579.1, 580.1, 581.1, 582.1, 583.1, 584.1, 585.1, 586.1, 587.1, 588.1, 589.1, 590.1, 591.1, 592.1, 593.1, 594.1, 595.1, 596.1, 597.1, 598.1, 599.1, 600.1, 601.1, 602.1, 603.1, 604.1, 605.1, 606.1, 607.1, 608.1, 609.1, 610.1, 611.1, 612.1, 613.1, 614.1, 615.1, 616.1, 617.1, 618.1, 619.1, 620.1, 621.1, 622.1, 623.1, 624.1, 625.1, 626.1, 627.1, 628.1, 629.1, 630.1, 631.1, 632.1, 633.1, 634.1, 635.1, 636.1, 637.1, 638.1, 639.1, 640.1, 641.1, 642.1, 643.1, 644.1, 645.1, 646.1, 647.1, 648.1, 649.1, 650.1, 651.1, 652.1, 653.1, 654.1, 655.1, 656.1, 657.1, 658.1, 659.1, 660.1, 661.1, 662.1, 663.1, 664.1, 665.1, 666.1, 667.1, 668.1, 669.1, 670.1, 671.1, 672.1, 673.1, 674.1, 675.1, 676.1, 677.1, 678.1, 679.1, 680.1, 681.1, 682.1, 683.1, 684.1, 685.1, 686.1, 687.1, 688.1, 689.1, 690.1, 691.1, 692.1, 693.1, 694.1, 695.1, 696.1, 697.1, 698.1, 699.1, 700.1, 701.1, 702.1, 703.1, 704.1, 705.1, 706.1, 707.1, 708.1, 709.1, 710.1, 711.1, 712.1, 713.1, 714.1, 715.1, 716.1, 717.1, 718.1, 719.1, 720.1, 721.1, 722.1, 723.1, 724.1, 725.1, 726.1, 727.1, 728.1, 729.1, 730.1, 731.1, 732.1, 733.1, 734.1, 735.1, 736.1, 737.1, 738.1, 739.1, 740.1, 741.1, 742.1, 743.1, 744.1, 745.1, 746.1, 747.1, 748.1, 749.1, 750.1, 751.1, 752.1, 753.1, 754.1, 755.1, 756.1, 757.1, 758.1, 759.1, 760.1, 761.1, 762.1, 763.1, 764.1, 765.1, 766.1, 767.1, 768.1, 769.1, 770.1, 771.1, 772.1, 773.1, 774.1, 775.1, 776.1, 777.1, 778.1, 779.1, 780.1, 781.1, 782.1, 783.1, 784.1, 785.1, 786.1, 787.1, 788.1, 789.1, 790.1, 791.1, 792.1, 793.1, 794.1, 795.1, 796.1, 797.1, 798.1, 799.1, 800.1, 801.1, 802.1, 803.1, 804.1, 805.1, 806.1, 807.1, 808.1, 809.1, 810.1, 811.1, 812.1, 813.1, 814.1, 815.1, 816.1, 817.1, 818.1, 819.1, 820.1, 821.1, 822.1, 823.1, 824.1, 825.1, 826.1, 827.1, 828.1, 829.1, 830.1, 831.1, 832.1, 833.1, 834.1, 835.1, 836.1, 837.1, 838.1, 839.1, 840.1, 841.1, 842.1, 843.1, 844.1, 845.1, 846.1, 847.1, 848.1, 849.1, 850.1, 851.1, 852.1, 853.1, 854.1, 855.1, 856.1, 857.1, 858.1, 859.1, 860.1, 861.1, 862.1, 863.1, 864.1, 865.1, 866.1, 867.1, 868.1, 869.1, 870.1, 871.1, 872.1, 873.1, 874.1, 875.1, 876.1, 877.1, 878.1, 879.1, 880.1, 881.1, 882.1, 883.1, 884.1, 885.1, 886.1, 887.1, 888.1, 889.1, 890.1, 891.1, 892.1, 893.1, 894.1, 895.1, 896.1, 897.1, 898.1, 899.1, 900.1, 901.1, 902.1, 903.1, 904.1, 905.1, 906.1, 907.1, 908.1, 909.1, 910.1, 911.1, 912.1, 913.1, 914.1, 915.1, 916.1, 917.1, 918.1, 919.1, 920.1, 921.1, 922.1, 923.1, 924.1, 925.1, 926.1, 927.1, 928.1, 929.1, 930.1, 931.1, 932.1, 933.1, 934.1, 935.1, 936.1, 937.1, 938.1, 939.1, 940.1, 941.1, 942.1, 943.1, 944.1, 945.1, 946.1, 947.1, 948.1, 949.1, 950.1, 951.1, 952.1, 953.1, 954.1, 955.1, 956.1, 957.1, 958.1, 959.1, 960.1, 961.1, 962.1, 963.1, 964.1, 965.1, 966.1, 967.1, 968.1, 969.1, 970.1, 971.1, 972.1, 973.1, 974.1, 975.1, 976.1, 977.1, 978.1, 979.1, 980.1, 981.1, 982.1, 983.1, 984.1, 985.1, 986.1, 987.1, 988.1, 989.1, 990.1, 991.1, 992.1, 993.1, 994.1, 995.1, 996.1, 997.1, 998.1, 999.1, 1000.1, 1001.1, 1002.1, 1003.1, 1004.1, 1005.1, 1006.1, 1007.1, 1008.1, 1009.1, 1010.1, 1011.1, 1012.1, 1013.1, 1014.1, 1015.1, 1016.1, 1017.1, 1018.1, 1019.1, 1020.1, 1021.1, 1022.1, 1023.1, 1024.1, 1025.1, 1026.1, 1027.1, 1028.1, 1029.1, 1030.1, 1031.1, 1032.1, 1033.1, 1034.1, 1035.1, 1036.1, 1037.1, 1038.1, 1039.1, 1040.1, 1041.1, 1042.1, 1043.1, 1044.1, 1045.1, 1046.1, 1047.1, 1048.1, 1049.1, 1050.1, 1051.1, 1052.1, 1053.1, 1054.1, 1055.1, 1056.1, 1057.1, 1058.1, 1059.1, 1060.1, 1061.1, 1062.1, 1063.1, 1064.1, 1065.1, 1066.1, 1067.1, 1068.1, 1069.1, 1070.1, 1071.1, 1072.1, 1073.1, 1074.1, 1075.1, 1076.1, 1077.1, 1078.1, 1079.1, 1080.1, 1081.1, 1082.1, 1083.1, 1084.1, 1085.1, 1086.1, 1087.1, 1088.1, 1089.1, 1090.1, 1091.1, 1092.1, 1093.1, 1094.1, 1095.1, 1096.1, 1097.1, 1098.1, 1099.1, 1100.1, 1101.1, 1102.1, 1103.1, 1104.1, 1105.1, 1106.1, 1107.1, 1108.1, 1109.1, 1110.1, 1111.1, 1112.1, 1113.1, 1114.1, 1115.1, 1116.1, 1117.1, 1118.1, 1119.1, 1120.1, 1121.1, 1122.1, 1123.1, 1124.1, 1125.1, 1126.1, 1127.1, 1128.1, 1129.1, 1130.1, 1131.1, 1132.1, 1133.1, 1134.1, 1135.1, 1136.1, 1137.1, 1138.1, 1139.1, 1140.1, 1141.1, 1142.1, 1143.1, 1144.1, 1145.1, 1146.1, 1147.1, 1148.1, 1149.1, 1150.1, 1151.1, 1152.1, 1153.1, 1154.1, 1155.1, 1156.1, 1157.1, 1158.1, 1159.1, 1160.1, 1161.1, 1162.1, 1163.1, 1164.1, 1165.1, 1166.1, 1167.1, 1168.1, 1169.1, 1170.1, 1171.1, 1172.1, 1173.1, 1174.1, 1175.1, 1176.1, 1177.1, 1178.1, 1179.1, 1180.1, 1181.1, 1182.1, 1183.1, 1184.1, 1185.1, 1186.1, 1187.1, 1188.1, 1189.1, 1190.1, 1191.1, 1192.1, 1193.1, 1194.1, 1195.1, 1196.1, 1197.1, 1198.1, 1199.1, 1200.1, 1201.1, 1202.1, 1203.1, 1204.1, 1205.1, 1206.1, 1207.1, 1208.1, 1209.1, 1210.1, 1211.1, 1212.1, 1213.1, 1214.1, 1215.1, 1216.1, 1217.1, 1218.1, 1219.1, 1220.1, 1221.1, 1222.1, 1223.1, 1224.1, 1225.1, 1226.1, 1227.1, 1228.1, 1229.1, 1230.1, 1231.1, 1232.1, 1233.1, 1234.1, 1235.1, 1236.1, 1237.1, 1238.1, 1239.1, 1240.1, 1241.1, 1242.1, 1243.1, 1244.1, 1245.1, 1246.1, 1247.1, 1248.1, 1249.1, 1250.1, 1251.1, 1252.1, 1253.1, 1254.1, 1255.1, 1256.1, 1257.1, 1258.1, 1259.1, 1260.1, 1261.1, 1262.1, 1263.1, 1264.1, 1265.1, 1266.1, 1267.1, 1268.1, 1269.1, 1270.1, 1271.1, 1272.1, 1273.1, 1274.1, 1275.1, 1276.1, 1277.1, 1278.1, 1279.1, 1280.1, 1281.1, 1282.1, 1283.1, 1284.1, 1285.1, 1286.1, 1287.1, 1288.1, 1289.1, 1290.1, 1291.1, 1292.1, 1293.1, 1294.1, 1295.1, 1296.1, 1297.1, 1298.1, 1299.1, 1300.1, 1301.1, 1302.1, 1303.1, 1304.1, 1305.1, 1306.1, 1307.1, 1308.1, 1309.1, 1310.1, 1311.1, 1312.1, 1313.1, 1314.1, 1315.1, 1316.1, 1317.1, 1318.1, 1319.1, 1320.1, 1321.1, 1322.1, 1323.1, 1324.1, 1325.1, 1326.1, 1327.1, 1328.1, 1329.1, 1330.1, 1331.1, 1332.1, 1333.1, 1334.1, 1335.1, 1336.1, 1337.1, 1338.1, 1339.1, 1340.1, 1341.1, 1342.1, 1343.1, 1344.1, 1345.1, 1346.1, 1347.1, 1348.1, 1349.1, 1350.1, 1351.1, 1352.1, 1353.1, 1354.1, 1355.1, 1356.1, 1357.1, 1358.1, 1359.1, 1360.1, 1361.1, 1362.1, 1363.1, 1364.1, 1365.1, 1366.1, 1367.1, 1368.1, 1369.1, 1370.1, 1371.1, 1372.1, 1373.1, 1374.1, 1375.1, 1376.1, 1377.1, 1378.1, 1379.1, 1380.1, 1381.1, 1382.1, 1383.1, 1384.1, 1385.1, 1386.1, 1387.1, 1388.1, 1389.1, 1390.1, 1391.1, 1392.1, 1393.1, 1394.1, 1395.1, 1396.1, 1397.1, 1398.1, 1399.1, 1400.1, 1401.1, 1402.1, 1403.1, 1404.1, 1405.1, 1406.1, 1407.1, 1408.1, 1409.1, 1410.1, 1411.1, 1412.1, 1413.1, 1414.1, 1415.1, 1416.1, 1417.1, 1418.1, 1419.1, 1420.1, 1421.1, 1422.1, 1423.1, 1424.1, 1425.1, 1426.1, 1427.1, 1428.1, 1429.1, 1430.1, 1431.1, 1432.1, 1433.1, 1434.1, 1435.1, 1436.1, 1437.1, 1438.1, 1439.1, 1440.1, 1441.1, 1442.1, 1443.1, 1444.1, 1445.1, 1446.1, 1447.1, 1448.1, 1449.1, 1450.1, 1451.1, 1452.1, 1453.1, 1454.1, 1455.1, 145			

Mayne, R.; Brewton, R.G.; Mayne, P.M.; Baker, J.R.
Biol. Chem. 268, 9381-9386, 1993
Title: Isolation and characterization of the chains of type V/type XI collagen present
Reference number: A46662; MUID:93252802
Accession: A46662
Status: preliminary
Molecule type: protein
Residues: 1-39 <MAY>
Experimental source: vitreous humor
Note: sequence extracted from NCBI backbone (NCBIP:131547)
Superfamily: collagen alpha 1(I) chain; fibrillar collagen carboxyl-terminal homology;

Query	Match	14.2%	Score 43;	DB 2;	Length 39;
Best Local Matches	Similarity	53.3%	Pred. NO.	6.3e+02;	
8;	Conservative	0;	Mismatches	7;	Indels
				0;	Gaps
43	LPMGPSPPAEESTGD	57			0;

RESULT 14
 337172 collagen alpha 1(XII) chain-like, skin and tendon - bovine (fragments)
 ;Species: Bos primigenius taurus (cattle)
 ;Date: 31-Jan-1992 #sequence_revision 31-Jan-1992 #text_change 19-Oct-1995
 ;Accession: A31172
 ;Dublet, B.; Van Der Rest, M.
 ;Acad. Sci., 580, 436-439, 1989.
 ;Title: Comparison between chicken type XII collagen and bovine homologues.
 ;Reference number: A37172
 ;Accession: A37172
 ;Stratus: Preliminary
 ;Molecule type: protein

Query	Match	Score	Length
Best Local Matches	Similarity	42;	36;
Matches 12;	Conservative	Pred. No.	DB 2;
		3;	7.1×10^{-2}
		Mismatches	Indels
		8;	6;
			Gaps
25	QHTQPTPEPSTA-PSTSFLPMPGSPPAE	52	
3	OPPSPE-POODANAVPSY-----b		
	bccccccccc		
	:ccccccccc:		

```

RESULT 15
46522
proponin T 2fa - rabbit (fragment)
Species: Oryctolagus cuniculus (domestic rabbit)
Date: 14-Feb-1997 #sequence_revision 14-Feb-1997 #text_change 13-Aug-1999
Accession: I46522
Briggs, M.M.; Lin, J.J.; Schachat, F.H.
Muscle, Res. Cell. Motil. 8, 1-12, 1987
Title: The extent of amino-terminal heterogeneity in rabbit fast skeletal muscle tropomyosin; Reference number: I46522; MUID:87251333
Accession: I46522
Status: preliminary; translated from GB/EMBL/DDBJ
Molecule type: mRNA
Residues: 1-48 <PDT>

```

Query	Match	Score	DB 2;	Length	4 8;		2;
Y	Query Match	13.9%	Score 42;	DB 2;	Length 4 8;		2;
	Best Local Similarity	37.9%	Pred. No.	9.5e+02;			
	Matches 11;	Conservative	3;	Mismatches 9;	Indels 6;	Gaps	
10	A PGAVHLPPQVSRTSRSQHTQPPPEPS-TAP	37					
:	: : : : : : : :						
25	SPAEVHEPEEV----HEEEPRPKLTAP	48					

Scoring table:	BLOSUM62	Gapop 10.0 , Gapext. 0.5	
Searched:	105224 seqs,	38719550 residues	
Total number of hits satisfying chosen parameters:	4574		
Minimum DB seq length:	0		
Maximum DB seq length:	57		
Post-processing:	Minimum Match 0%		
	Maximum Match 100%		
Database :	SwissProt_40 :*	Listing first 45 summaries	
Pred.	No.	is the number of results Predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.	
		SUMMARIES	
Result No.	Score	Query Match	Description
- - - - -	%	Length DB ID	- - - - -
1	56.5	18.7	YN78_YEAST
2	44.5	14.7	PRPB_HUMAN
3	42	13.9	ATPB_GADMO
4	40	13.2	VG18_BPMDD
5	40	13.2	ATPB_PELUSI
6	39	12.9	TA6P_HUMAN
7	38	12.6	MLEV_MOUSE
8	38	12.6	ATPB_PAROL
9	37.5	12.4	FOR2_MYRGL
10	37.5	12.4	RPOK_HALIMA
11	36.5	12.1	YPU3_ROCMA
12	36	11.9	AP65_CARMIA
13	36	11.9	ATPB_SOUCAC
14	35	11.6	INE1_HUMAN
15	35	11.6	CALL_RABTT
16	35	11.6	ATPB_SALAL
17	34.5	11.4	FOR_MYRGU
18	34.5	11.4	Y1B0_TREPAA
19	34	11.3	ATPB_RHEAM
20	34	11.3	M84C_DRONE
21	33.5	11.1	H5_COLLI
22	33.5	11.1	MTK_DRONE
23	33.5	11.1	PH68_HUMAN
24	33.5	11.1	ATPB_AYTAM
25	33	10.9	CAPP_METEX
26	33	10.9	PBAN_LYMDI
27	33	10.9	ZNT4_BOVIN
28	33	10.9	TAT_HV1J3
29	33	10.9	ATPB_CARAU
30	33	10.9	ATPB_CYPRA
31	33	10.9	Q9ndj1
32	32	10.6	ATPB_LOANO
33	32	10.6	RNLL_PIG
			SPRT_RAT
		ALIGNMENTS	
RESULT	1		
ID	YN78_YEAST		
AC	P53820;		
DT	01-OCT-1996 (Rel. 34, Created)		
DT	01-OCT-1996 (Rel. 34, Last sequence update)		
DT	16-OCT-2001 (Rel. 40, Last annotation update)		
DE	Hypothetical 6.0 kDa protein in COS1 5' Region.		
GN	YN338W OR N01/0.		
OS	Saccharomyces cerevisiae (Baker's yeast).		
OC	Eukaryota; Fungi; Ascomycota; Saccharomycetidae; Saccharomycetes.		
OC	Saccharomyctales; Saccharomycetaceae; Saccharomyces.		
OX			
NCBI_TaxID=4932;			
RN	[1]		
RP	SEQUENCE FROM N.A.		
RA	Obenmaier B., Piravandi E., Rinke M.; Submitted (MAY 1996) to the EMBL/GenBank/DDBJ databases.		
RL	- - - - - SIMILARITY: TO YEAST YHR217C.		
CC	CC		
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL Outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).		
CC	-- - - - -		
DR	EMBL: Z71614; CAA96274.1; -.		
DR	SGD: S000282; YNL338W.		
KW	Hypothetical protein.		
SQ	SEQUENCE 52 AA; 5951 MW; C1E4066D43E057A1 CRC64;		
Query Match	18.7%	Score 56.5;	Length 52;
Best Local Similarity	35.7%	Pred. No. 32;	
Matches	15;	Conservative	4; Mismatches 20; Indels 3; Gaps 2;
RESULT	2		
PRPB_HUMAN			
ID	PRPB_HUMAN		
AC	P02814;		
DT	21-JUL-1986 (Rel. 01, Created)		
DT	21-JUL-1986 (Rel. 01, Last sequence update)		
DT	16-OCT-2001 (Rel. 40, Last annotation update)		
DE	Proline-rich Peptide P-B [Contains: Peptide P-A].		
OS	Homo sapiens (Human).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrate; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
OC			
NCBI_TaxID=9606;			
RN			

RA Zardoya R ; Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.

CC -!- FUNCTION: THIS IS ONE OF THE CHAINS OF THE NONENZYMIC COMPONENT (CF(0) SUBUNIT) OF THE MITOCHONDRIAL ATPase COMPLEX.

CC -!- SUBCELLULAR LOCATION: Membrane-bound.

CC -!- SIMILARITY: BELONGS TO THE ATPASE PROTEIN 8 FAMILY.

CC -----

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CC -----

DR EMBL; AF039066; AAD05054; 1; -

DR InterPro; IPR001421; ATP-synt_8 .

DR Pfam; PF00895; ATP-synt_8; 1 .

KW Hydrogen ion transport; CF(0); Mitochondrion; Transmembrane .

FT TRANSMEM 4 24 POTENTIAL.

SQ SEQUENCE 55 AA; 6536 MW; D8D4BC8F8651A001 CRC64;

Query Match 13.2%; Score 40; DB 1; Length 55;

Best Local Similarity 36.0%; Pred. No. 8 4e+02; Indels 0; Gaps 0;

Matches 9; Conservative 3; Mismatches 13; Indels 0; Gaps 0;

QY 15 HQPQVSTRSOHTQTPPEPSTAPST 39

Db 31 HIPNNSPTNKKMLTTPMPPWTWPWT 55

RESULT 6

TA6P_HUMAN STANDARD PRT; 56 AA.

AC Q9Y3F1;

DT 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DE TAP2-associated 6.5 kDa polypeptide.

OS Homo sapiens (Human).

OC Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo .

NCBI_TAXID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RA Li H.C.;

RT "A 56 aa polypeptide with phosphorylation motif, potentially associated with Tap2 isoform activity".

RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.

-!- FUNCTION: MAY BE ASSOCIATED WITH TAP2 ISOFORM ACTIVITY.

CC -----

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CC -----

DR EMBL; AF152583; AAD32715; 1; -

DR SEQUENCE 56 AA; 6535 MW; ACD5D223IEC2C3BA CRC64;

Query Match 12.9%; Score 39; DB 1; Length 56;

Best Local Similarity 40.0%; Pred. No. 1e+03; Indels 4; Gaps 0;

Matches 8; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY 30 TPPEPSTAPSTSFLIPMGPSPP 49

Db 6 TPQIILTFSVSYTSLIFPSP 25

RESULT 7

MILFV_MOUSE STANDARD PRT; 51 AA.

ID MILFV_MOUSE

AC P0542;

DT 01-MAR-1989 (Rel. 10, Created)

DT 01-FEB-1991 (Rel. 17, Last sequence update)

DT 01-MAR-2002 (Rel. 41, Last annotation update)

DE Myosin light chain 1, slow-twitch muscle B/ventricular isoform (Fragment).

GN MILFV OR MYLC OR MLCIV.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Muridae; Murinae; Mus .

NCBI_TAXID=10900;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=C3H; ISSUE=Splieen;

RX MEDLINE=89057447; PubMed=3194193;

RA Cohen A.; Barton P.J.R.; Robert B.; Garner I.; Alonso S., Buckingham M.E.;

RA "Promoter analysis of myosin alkali light chain genes expressed in mouse striated muscle.";

RT Nucleic Acids Res. 16:10037-10052 (1988).

CC -!- SUBUNIT: MYOSIN IS A HEXAMER OF 2 HEAVY CHAINS & 4 LIGHT CHAINS.

CC -!- SIMILARITY: TO OTHER EF-HAND CALCIUM BINDING PROTEINS, BUT THIS PROTEIN DOES NOT BIND CALCIUM.

CC -----

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CC -----

DR EMBL; X12972; CAA31415; 1; -

DR MGD; MG1:97268; MyoIC.

DR PIR; S01945; S01945.

DR HSSP; P04002; 1ATE.

KW Myosin; Muscle protein; Multigene family.

FT INT_MET 0 0

FT NON_TER 51 51

SEQUENCE 51 AA; 5085 MW; CE513ECBA3C8225BD CRC64;

Query Match 12.6%; Score 38; DB 1; Length 51;

Best Local Similarity 26.3%; Pred. No. 1.1e+03;

Matches 10; Conservative 6; Mismatches 20; Indels 2; Gaps 1;

QY 17 PQPVSTRQHTQTP--TPPEPSTARSTASFLIPMGPSPPAE 52

Db 5 PFPKDDKAKAAKPAAPAAKPAAPAAPEPERPK 42

RESULT 8

ATP8_PAR01 STANDARD PRT; 55 AA.

ID ATP8_PAR01

AC Q919D5;

DT 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE ATP synthase protein 8 (EC 3.6.3.14) (ATPase subunit 8) (A6L).

GN MTATP8 OR ATP8

OS Paralichthys olivaceus (Flounder).

OC Mitochondrion.

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Pleuronectiformes; Pleuronectoidei; Paralichthyidae; Paralichthys.

NCBI_TAXID=8255;

RN [1]

RP SEQUENCE FROM N.A.

RA Saitoh K.; Hayashizaki K.; Yokoyama Y.; Asshida T.; Toyohara H. ,

RA	Y Yamashita Y.; nucleotide sequence of Japanese flounder mitochondrial genome; structural property and cue for resolving teleostean relationship.;	3 PNPVNTRK-----PTPPP 14
RT	"The complete nucleotide sequence of Japanese flounder mitochondrial genome: structural property and cue for resolving teleostean relationship.;"	
RT	Submitted (JUN-1999) to the EMBL/GenBank/DBJU databases.	
RL	CC -!- FUNCTION: THIS IS ONE OF THE CHAINS OF THE NONENZYMIC COMPONENT (CF(0)) SUBUNIT OF THE MITOCHONDRIAL ATPASE COMPLEX.	RESULT 10
CC	-!- SUBCELLULAR LOCATION: Membrane-bound.	RPOK_HALMA STANDARD; PRT; 57 AA.
CC	-!- SIMILARITY: BELONGS TO THE ATPASE PROTEIN 8 FAMILY.	
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation at the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/) or send an email to license@isb-sib.ch).	
EMBL; AB028664; BAA89037; 1; -.		RP SEQUENCE FROM N.A.
DR InterPro: IPR001421; ATP-synt_8.		RP MEDLINE=92105119; PubMed=1840597;
PFam; PF00895; ATP synt_8; 1.		RA Kroemer W.J.; Arndt E.;
KW Hydronium ion transport; CF(0); Mitochondrion; Transmembrane.		RA McKune K.; Woychik N.A.;
SEQUENCE 55 AA; 6571 MW; 2B5EE20EDPCB6A9 CRC64;		RT "Halobacterial S9 operon. Three ribosomal protein genes are cotranscribed with genes encoding a tRNA(Leu), the enolase, and a putative membrane protein in the archaeabacterium Haloarcula marismortui."
DR J. Biol. Chem. 266:24573-24579(1991). 12]		RT (Halobacterium) marismortui.";
DR RN		RT (J. Biol. Chem. 266:24573-24579(1991). 12]
DR RN		RP SIMILARITY: 94.321350; PubMed=8045907;
DR RN		RA RT
PFam; PF00895; ATP synt_8; 1.		RA RT
KW Hydronium ion transport; CF(0); Mitochondrion; Transmembrane.		RT RT
SEQUENCE 55 AA; 6571 MW; 2B5EE20EDPCB6A9 CRC64;		RT RT
DR RN		RT (Halobacterium) marismortui.";
DR RN		RT (J. Biol. Chem. 266:24573-24579(1991). 12]
DR RN		RP SIMILARITY: Nucleoside triphosphate = N diphosphate + (RNA) (N).
DR RN		CC -!- SIMILARITY: BELONGS TO THE ARCHAEABACTERIA RPOK / EUKARYOTIC RPB6 RNA POLYMERASE SUBUNIT FAMILY.
DR RN		CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation at the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/) or send an email to license@isb-sib.ch).
DR RN		CC -!- CATALYTIC ACTIVITY: Nucleoside triphosphate = N diphosphate + (RNA) (N).
DR RN		CC -!- CATALYTIC ACTIVITY: Nucleoside triphosphate = N diphosphate + (RNA) (N).
DR RN		CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation at the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/) or send an email to license@isb-sib.ch).
DR RN		CC EMBL; M75567; AAA7310.1; -.
DR RN		DR PIR; E41715; B41715.
DR RN		DR InterPro; IPR001725; RNA_P01K_14KD.
DR RN		DR Pfam; PF01192; RNA_P01K_1.
DR RN		DR PROSITE; PS01111; RNA_P01K_14KD.
DR RN		DR Transferase; DNA-directed RNA Polymerases; Transcripti-
KW SQ		KW SEQUENCE 57 AA; 6291 MW; D299FDA1954D030F CRC64;
CC		CC
CC		Query Match Score 37.5; DB 1; Length 57;
CC		Best Local Similarity 42.9%; Pred. No. 1.4e+03; Indels 5; Gaps 5; Gaps
CC		Matches 9; Conservative 3; Mismatches 4;
CC		QY 9 MAPGAVHLQPVSTRSQHTQP 29
CC		Db 21 : : : : : 21 LAHGA-----PVLIETHTQP 36
CC		RESULT 11
CC		YPU3_RHOCA STANDARD; PRT; 55 AA.
CC		AC P26159; ID YPU3_RHOCA
CC		DT 01-MAY-1992 (Rel. 22, Created)
CC		DT 01-MAY-1992 (Rel. 22, Last sequence update)
CC		DT 01-MAY-1992 (Rel. 22, Last annotation update)
CC		DT 16-OCT-2001 (Rel. 40, Last sequence update)
CC		DT 16-OCT-2001 (Rel. 40, Last annotation update)
CC		CC
CC		Query Match Score 37.5; DB 1; Length 16;
CC		Best Local Similarity 47.1%; Pred. No. 4.1e+02; Indels 5; Gaps 1;
CC		Matches 8; Conservative 2; Mismatches 2;
CC		QY 17 PQDVSTRSQHTQPPEP 33
CC		SQ

DE Hypothetical 5.8 kDa protein in PUHA 5' region (ORF55).	RESULT 13
OS Rhodobacter capsulatus (Rhodopseudomonas capsulata).	ATP8_SQUAC STANDARD; PRT; 55 AA.
OC Bacteria; Proteobacteria; alpha subdivision; Rhodobacter group;	ID ATP8_SQUAC
OC Rhodobacter	ID Q9Z5Q0;
OX NCBI_TAXID=1061;	AC 30-MAY-2000 (Rel. 39, Created)
RN [1]	DT 30-MAY-2000 (Rel. 39, Last sequence update)
RP SEQUENCE FROM N.A.	DT 16-OCT-2001 (Rel. 40, Last annotation update)
RA Burke D.H., Alberti M., Armstrong G.A., Hearst J.E.;	DE ATP synthase protein 8 (EC 3.6.3.14) (ATPase subunit 8) (A6L).
RL Submitted (NOV-1991) to the EMBL/Genbank/DBJ databases.	GN MTATP8 OR ATP8.
CC	OS Squalus acanthias (Spiny dogfish).
CC This SWISS-PROT entry is copyright. It is produced through a collaboration	OG Mitochondrion.
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
CC the European Bioinformatics Institute. There are no restrictions on its	OC Elasmobranchii; Squalidae; Squaloidei; Squalidae; Squalus.
CC use by non-profit institutions as long as its content is in no way	NCBI_TAXID=779/;
CC modified and this statement is not removed. Usage by and for commercial	RN [1]
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).	RP SEQUENCE FROM N.A.
CC	PUBMED=9873084;
CC	RX
CC	RA Rasmussen A.S.; Arnason U.;
CC	RT "Phylogenetic studies of complete mitochondrial DNA molecules place
CC	RT cartilaginous fishes within the tree of bony fishes.";
CC	RL J. Mol. Evol. 48:118-123(1999).
CC	CC -1 FUNCTION: THIS IS ONE OF THE CHAINS OF THE NONNEUTRATIC COMPONENT
CC	CC -(CF (0) SUBUNIT) OF THE MITOCHONDRIAL ATPASE COMPLEX.
CC	CC -1 SUBCELLULAR LOCATION: Membrane-bound.
CC	CC -1 SIMILARITY: BELONGS TO THE ATPASE PROTEIN 8 FAMILY.
CC	CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC	CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC	CC the European Bioinformatics Institute. There are no restrictions on its
CC	CC use by non-profit institutions as long as its content is in no way
CC	CC modified and this statement is not removed. Usage by and for commercial
CC	CC entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).
CC	CC
DR EMBL; Y18134; CAA7053.1; -.	DR EMBL; Y18134; CAA7053.1; -.
DR InterPro; IPR001421; ATP-synt_8.	DR InterPro; IPR001421; ATP-synt_8.
AC P82964; DR Pfam; PF00895; ATP-synt_8; 1.	AC P82964; DR Pfam; PF00895; ATP-synt_8; 1.
DT 16-OCT-2001 (Rel. 40, Created)	KW Hydrogen ion transport; CF(0); Mitochondrion; Transmembrane.
DT 16-OCT-2001 (Rel. 40, Last sequence update)	FT TRANSMEM 6 26 POTENTIAL.
DT 16-OCT-2001 (Rel. 40, Last annotation update)	SO SEQUENCE 55 AA; 6587 MW; 3FB9F843C6FA54EE CRC64;
DE Antibacterial 6.5 kDa protein (Fragment).	Query Match 11.9%; Score 36; DB 1; Length 55;
OS Carcinus maenas (Common shore crab) (Green crab).	Best Local Similarity 35.3%; Pred. No. 1.8e+03;
OC Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;	Matches 12; Conservative 2; Mismatches 12; Indels 8; Gaps 1;
OC Bivalvia; Ostracoda; Decapoda; Pleocyemata; Brachyura;	Qy 14 VHLPQPVSTRSQHTQPT-----PEPSTAPST 39
OC Subbrachyura; Portunoidea; Portunidae; Carcinus.	Db 22 VILPKKVMTLFFNNNPTAKSAEKPKPEPPNNWPWT 55
OX NCBI_TAXID=6759;	RESULT 14
RN [1]	INEL_HUMAN STANDARD; PRT; 51 AA.
RP SEQUENCE=Hemocyte;	ID INEL_HUMAN
RX MEDLINE=9700894; PubMed=8856051;	AC 013225;
RA Schnapp D., Kemp G.D., Smith V.J.;	DT 15-JUL-1999 (Rel. 38, Created)
RT "Purification and characterization of a proline-rich antibacterial	CC 16-OCT-2001 (Rel. 40, Last sequence update)
RT peptide, with sequence similarity to bactenein-7, from the haemocytes	CC 16-OCT-2001 (Rel. 40, Last annotation update)
RT of the shore crab, <i>Carcinus maenas</i> ;"	DE Putative inactivation escape 1 protein (DXS6974E).
RL Eur. J. Biochem. 240:532-539(1996).	GN Homo sapiens (Human).
CC -1 FUNCTION: STRONG ANTIMICROBIAL ACTIVITY AGAINST <i>P. MOBILIS</i> AND	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC <i>M. LUTEUS</i> , LESS ACTIVE AGAINST <i>E. COLI</i> D22.	OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
CC -1 MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED MW IS: 6.5 kDa.	OX NCBITAXID=9606;
CC -1 SIMILARITY: TO BOVINE BACTENEIN 7.	RN [1]
KW Antibiotic.	RP SEQUENCE FROM N.A.
FT NON_TER 30 30	RX MEDLINE=97385386; PubMed=9244435;
SEQUENCE 30 AA; 3305 MW; 6E2C2205934896C4 CRC64;	RA Esposito T.; Gianfrancesco F.; Ciccodicola A.; D'Esposito M.;
Qy 29 PPEPSTAPSTFLLPMGPSP 49	RA Narraja R.; Mazzarella R.; D'Urso M.; Forabosco A.;
Db 4 PYPRDFPRP-----PIGPRP 18	RT "Escape from X inactivation of two new genes associated with DXS6974E";
	RT and DXS7020E";
	RL Genomics 43:183-190(1997). [2]

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OM protein - protein search, using sw model

Run on: August 21, 2002, 10:07:12 ; Search time 24.13 Seconds
(without alignments)
408.649 Million cell updates/sec

Title: US-09-800-909-2_COPY_201_257

Perfect score: 302

Sequence: 1 TSTSPTRSMAPGAHVLFQQPV.....STSFLPMGPSPPAEGSTGD 57

Scoring table: BL05062

Gappen 10.0 , Gapext 0.5

Searched: 562222 seqs, 172994929 residues

Total number of hits satisfying chosen parameters: 37469

Minimum DB seq length: 0

Maximum DB seq length: 57

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTREMBL19:
1: sp_archaea:
2: sp_bacteria:
3: sp_fungi:
4: sp_human:
5: sp_invertebrate:
6: sp_mammal:
7: sp_mhc:
8: sp_organelle:
9: sp_phage:
10: sp_plant:
11: sp_rabbit:
12: sp_virus:
13: sp_vertebrate:
14: sp_unclassified:
15: sp_rvirus:
16: sp_bacteriap:
17: sp_archeap:
18: sp_bacteria:
19: sp_fungi:
20: sp_invertebrate:
21: sp_mammal:
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DT 01-NOV-1996 (TREMBLrel. 01, Created)	DE ATTACHMENT GLYCOPROTEIN G (FRAGMENT).	DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DT 01-NOV-1996 (TREMBLrel. 01, Last sequence update)	DE Human respiratory syncytial virus.	DE ATTACHMENT GLYCOPROTEIN G (FRAGMENT).
DT 01-NOV-1998 (TREMBLrel. 08, Last annotation update)	OS Viruses; ssRNA negative-strand viruses; Mononegavirales;	OS Human respiratory syncytial virus.
DE GLYCOPROTEIN IB ALPHA VARIANT B (FRAGMENT).	OC Paramyxoviridae; Pneumovirinae; Pneumovirus.	OC Paramyxoviridae; Pneumovirinae; Pneumovirus.
OS Homo sapiens (Human).	NCBI_TAXID=9606;	NCBI_TAXID=9606;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	[1]	[1]
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	SEQUENCE FROM N.A.	SEQUENCE FROM N.A.
RN [1]	RC STRAIN=181691;	RC STRAIN=181691;
RP MEDLINE=9225056; PubMed=1577776;	RX MEDLINE=99036758; PubMed=9817872;	RX MEDLINE=99036758; PubMed=9817872;
RA Lopez J.A., Ludwig E.H., McCarthy B.J.;	RA Coggins W.B., Lefkowitz E.J., Sullender W.M.;	RA Coggins W.B., Lefkowitz E.J., Sullender W.M.;
RT "Polymorphism of human glycoprotein Ib alpha results from a variable number of tandem repeats of a 13-amino acid sequence in the mucin-like macroglycopptide region. Structure/function implications.";	RT Genetic variability among group A and group B respiratory syncytial viruses in a children's hospital. ";	RT Genetic variability among group A and group B respiratory syncytial viruses in a children's hospital. ";
RT EMBL; S34439; ABB2213.1. -.	RT J. Clin. Microbiol. 36:3552-3557(1998).	RT J. Clin. Microbiol. 36:3552-3557(1998).
PT NON_TER 1 1	DR EMBL; AF086872; AAC42992.1. -.	DR InterPro: IPR000925; Glycoprot_G.
SEQUENCE 42 AA; 4222 MW; 228018AC7FBE3F38 CRC64;	DR Pfam; PF00802; Glycoprotein_G; 1.	DR Pfam; PF00802; Glycoprotein_G; 1.
SQ	FT NON_TER 1 1	FT NON_TER 1 1
	SEQUENCE 52 AA; 5613 MW; 7C3114AC02574E6 CRC64;	SEQUENCE 52 AA; 5613 MW; 7C3114AC02574E6 CRC64;
RESULT 3	Query Match 18.4%; Score 55.5; DB 4; Length 42;	Query Match 16.9%; Score 51; DB 12; Length 52;
ID 092313	Best Local Similarity 35.6%; Pred. No. 21;	Best Local Similarity 34.3%; Pred. No. 81;
ID 092313 PRELIMINARY; PRT; 52 AA.	Matches 16; Conservative 6; Mismatches 18;	Matches 12; Conservative 4; Mismatches 19;
PRT	Indels 5; Gaps 3;	Indels 0; Gaps 0;
Qy 5 PTRSMAPGAVILPQPVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49	Qy 15 HLQPQPVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49	Qy 15 HLQPQPVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49
Db 2 PTSEPA[P]T-PEPTISEPAB-SP[IT]PEPTISEPAPS---PTTPEP 41	Db 13 HTSQKETLHSTTSSEGNPSPSQVYTTSEYLSSQSPSP 47	Db 13 HTSQKETLHSTTSSEGNPSPSQVYTTSEYLSSQSPSP 47
RESULT 5	Query Match 17.2%; Score 52; DB 12; Length 52;	Query Match 16.9%; Score 51; DB 12; Length 52;
ID 092313	Best Local Similarity 34.3%; Pred. No. 63;	Best Local Similarity 31.8%; Pred. No. 81;
ID 092313 PRELIMINARY; PRT; 52 AA.	Matches 12; Conservative 4; Mismatches 19;	Matches 14; Conservative 5; Mismatches 25;
PRT	Indels 0; Gaps 0;	Indels 0; Gaps 0;
Qy 15 HLQPQPVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49	Qy 6 TRNMAPGAVHLPOVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49	Qy 6 TRNMAPGAVHLPOVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49
Db 13 HTSQKETLHSTTSSEGNPSPSQVYTTSEYLSSQSPSP 47	Db 4 TNSITGNLEHTSQEETLHSSEGNTSPSQVYTTSEYLSSQSPSP 47	Db 4 TNSITGNLEHTSQEETLHSSEGNTSPSQVYTTSEYLSSQSPSP 47
RESULT 4	Query Match 17.2%; Score 52; DB 12; Length 52;	Query Match 17.2%; Score 52; DB 12; Length 52;
ID 092301	Best Local Similarity 34.3%; Pred. No. 63;	Best Local Similarity 31.8%; Pred. No. 81;
ID 092301 PRELIMINARY; PRT; 52 AA.	Matches 12; Conservative 4; Mismatches 19;	Matches 14; Conservative 5; Mismatches 25;
PRT	Indels 0; Gaps 0;	Indels 0; Gaps 0;
Qy 15 HLQPQPVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49	Qy 6 TRNMAPGAVHLPOVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49	Qy 6 TRNMAPGAVHLPOVSTRSHTQTPPEPSTAPSTSFLPPNGPSP 49
Db 13 HTSQKETLHSTTSSEGNPSPSQVYTTSEYLSSQSPSP 47	Db 4 TNSITGNLEHTSQEETLHSSEGNTSPSQVYTTSEYLSSQSPSP 47	Db 4 TNSITGNLEHTSQEETLHSSEGNTSPSQVYTTSEYLSSQSPSP 47

DT	01-JUL-1997 (TREMBLrel. 04, Last sequence update)	OS	Bos taurus (Bovine).
DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
GN	HUNTINGtin PROTEIN (FRAGMENT).	OC	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
IT15		OC	Bovidae; Bovinae; Bos.
OS	Gorilla gorilla (gorilla).	OC	
OC		NCBI_TaxID=9913;	
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Gorilla.	RN	[1]
OX		RP	SEQUENCE FROM N.A.
NCBI_TaxID=9593;		RA	Chung H.Y., Davis M.E., Hines H.C.;
[1]		RA	"PER-SSCP analysis of the bovine calpastatin gene domain L region."
RP	SEQUENCE FROM N.A.	RA	
RX	MEDLINE=96326790; PubMed=8766138;	RA	
RA	Pechoux C., Gall A.L., Kaplan J.C., Dode C.;	DR	Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
RT	"Sequence analysis of the CAG triplet repeats region in the Huntington	AY008267; ARG2389.1; -.	
RT	disease gene (IT15) in several mammalian species.";	FT	NON_TER 1
RL	Ann. Gen. 39:81-86(1998).	FT	NON_TER 52 52
DR	EMBL: S83377; AAB5071.1; -.	SQ	SEQUENCE 52 AA; 5749 MW; CBDS5A7449AFDDA89 CRC64;
FT	NON_TER 1 1		
SQ	SEQUENCE 33 AA; 3393 MW; 44F558CE5636722A CRC64;		
Query Match	16.7%; Score 50.5%; DB 6; Length 33;	Query	16.6%; Score 50; DB 6; Length 52;
Best Local Similarity	38.5%; Pred. No. 58;	Best Local Similarity	33.3%; Pred. No. 1e+02;
Matches 15;	Conservative 1; Mismatches 12; Indels 11; Gaps 3;	Matches 11; Conservative 3; Mismatches 19; Indels 0;	Gaps 0;
Qy	16 LPQPYSTRSQHTQPTPEPSTAPSTSFLIPMGPSPPAEG 53	Qy	5 PTRSMAQAVHLPOPVSTRSQHTQPTPEPSTAP 37
Db	2 LPQP---PPHQQLPQPOROP-----BPPPPPPPG 30	Db	19 PKHSSDTGSKHAPREKAVKSSEOPPSERSTKTP 51
RESULT	9	RESULT	9
ID	Q3j7C8	ID	Q3j7C8
AC	PRELIMINARY;	AC	PRELIMINARY;
Q9WTV7	PRELIMINARY;	Q9WTV7	PRELIMINARY;
ID	PRT; 54 AA.	ID	PRT; 54 AA.
AC		AC	
Q9WTV7;		Q9WTV7;	
DT	01-NOV-1999 (TREMBLrel. 12, Created)	DT	01-OCT-2000 (TREMBLrel. 15, Created)
AC		DT	01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DT	01-NOV-1999 (TREMBLrel. 12, Last sequence update)	DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DT	01-NOV-1999 (TREMBLrel. 12, Last annotation update)	DE	LARGE T ANTIGEN (FRAGMENT).
DE		OS	Sinian virus 40 (SV40).
ENDOTHELIAL NITRIC OXIDE SYNTHASE (FRAGMENT).		OC	Viruses; dsDNA viruses, no RNA stage; Polyomaviridae; Polyomavirus.
GN		OX	
NOS3		RN	[1]
Mus musculus (Mouse).		RP	SEQUENCE FROM N.A.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		RC	STRAIN=NC-023863B-1;
OC		RX	MEDLINE=20090224; PubMed=10626798;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		RA	Rizzo P., Di Resta I., Powers A., Ratner H., Carbone M.;
OX		RA	"Unique strains of SV40 in commercial poliovaccines from 1955 not
NCBI_TaxID=10050;		RT	readily identifiable with current testing for SV40 infection."
[1]		RL	Cancer Res. 59:6103-6108(1999).
RP	SEQUENCE FROM N.A.	DR	EMBL; AF180748; AAF28272.1; -.
STRAN=CV129;		FT	NON_TER 1 1
RX	MEDLINE=90096466; PubMed=9878824;	SQ	SEQUENCE 54 AA; 5868 MW; 556CDAB682C1EFCD CRC64;
RA	Teichert A.M., Karantzoulis-Pegaras F., Wang Y., Mawji I.A., Bei X.,		
RA	Gnanapandithen K., Marsden P.A.;		
RT	"Characterization of the murine endothelial nitric oxide synthase		
RT	promoter.";		
RT	Biochim. Biophys. Acta 1443:352-357(1998).		
DR	EMBL: AF091262; ADD2613.1; -.		
DR			
FT	NON_TER 54 54		
SQ	SEQUENCE 54 AA; 5193 MW; 1DA456A21958B2EA CRC64;		
Query Match	16.7%; Score 50.5%; DB 11; Length 54;	RESULT	10
Best Local Similarity	47.8%; Pred. No. 95;	ID	Q15218
Matches 11;	Conservative 2; Mismatches 5; Indels 5; Gaps 1;	AC	Q15218;
Qy	29 PTPEPSTAPSTSFLIPMGPSPPA 51	AC	Q15218; PRELIMINARY;
Db	34 PAPEPSQAPA---PPSPTRPA 51	AC	Q15218; Created)
RESULT	8	DT	01-NOV-1996 (TREMBLrel. 01, Created)
Q9GL38	PRELIMINARY;	DT	01-JAN-1999 (TREMBLrel. 09, Last sequence update)
ID	PRT; 52 AA.	DE	SALIVARY PROLINE-RICH PROTEIN 2 (FRAGMENT).
AC		OS	Homo sapiens (Human).
DT	01-MAR-2001 (TREMBLrel. 16, Created)	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)	NCBI_TaxID=9606;	
DT	01-MAR-2001 (TREMBLrel. 16, Last annotation update)	RN	[1]
DE	CALPASTATIN (FRAGMENT).	RP	SEQUENCE FROM N.A.
		RX	MEDLINE=842398176; PubMed=6089212.

RA	Azen E.A., Lyons K.M., McConigal T., Barrett N.L., Clements L.S., Maeda N., Vanin E.F., Carlson D.M., Smithies O.; "Clones from the human gene complex coding for salivary proline-rich proteins"; Proc. Natl. Acad. Sci. U.S.A. 81:5561-5565(1984).	OX [1] NCBI_TAXID=11250; RN [1] RP SEQUENCE FROM N.A. RC STRAIN=182473; RX MEDLINE=99036758; PubMed=9817872;
RL	EMBL; K02578; AAA36505.1; -.	RA Coggins W.B., Leikowitz E.J., Sullender W.M.; "Genetic variability among group A and group B respiratory syncytial viruses in a children's hospital." J. Clin. Microbiol. 36:3552-3557(1998).
FT	NON_TER 1 1	RT RT
FT	NON_TER 46 46	RT RT
SQ	SEQUENCE 46 AA; 4592 MW; FCE1D38D8DEDPC173 CRC64;	RL J. Clin. Microbiol. 36:3552-3557(1998). DR EMBL; AF086873; AAC2993.1; -. DR InterPro; IPR00925; Glycoprot_G. DR PF00802; Glycoprotein_G; 1. FT NON_TER 1 FT NON_TER 52 52 SQ SEQUENCE 52 AA; 5530 MW; C2029E4C5B551270 CRC64;
Query Match	Score 49; DB 4; Length 46;	Query Match 16.2%; Score 49; DB 12; Length 52;
Best Local Similarity	38.2%	Best Local Similarity 31.8%; Pred. No. 1.3e+02;
Matches	13; Conservative 2; Mismatches 15; Indels 4; Gaps 1;	Mismatches 4; Conservative 4; Mismatches 26; Indels 0; Gaps 0;
Qy	21 STRSQTQPTEPSTAPSTSLLPGPSPPAEGS 54	QY 6 TRSMAPAGVHLPOPVSRSQHTOPTPEPSTAPTSFLPMGPSP 49
Db	1 SARS---PPRKPGQQEGNNPQQPPAGGN 30	Db 4 TNSTTGNLHTSOETLHSSEGNTSPSQTTEYLSPQPPSP 47
RESULT	11	RESULT 13
ID	O18723 PRELIMINARY; PRT; 51 AA.	ID O92303 PRELIMINARY; PRT; 52 AA.
AC	O18723;	AC O92303;
DT	01-NOV-1998 (TREMBLrel. 08, Created)	DT 01-NOV-1998 (TREMBLrel. 08, Created)
DT	01-NOV-1998 (TREMBLrel. 08, Last sequence update)	DT 01-NOV-1998 (TREMBLrel. 08, Last sequence update)
DT	01-NOV-1998 (TREMBLrel. 08, Last annotation update)	DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE	COMPLEMENT DECAY-ACCELERATING FACTOR (CD55) (FRAGMENT).	DE ATTACHMENT GLYCOPROTEIN_G (FRAGMENT).
GN	DAF.	OS Human respiratory syncytial virus.
OS	Macaca fuscata fuscata (Japanese macaque).	Viruses; ssRNA negative-strand viruses; Mononegavirales;
CC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	OC Paramyoviridae; Pneumovirinae; Pneumovirus.
CC	Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;	OX NCBI_TAXID=11250;
OC	Cercopithecoidea; Macaca.	RN [1]
OX	[1]	RP
RN	SEQUENCE FROM N.A.	RC STRAIN=182701;
RP	TISSUE-BLOOD;	RX MEDLINE=99066758; PubMed=9817872;
RX	MEDLINE=98099759; PubMed=9435343;	RA Coggins W.B., Leikowitz E.J., Sullender W.M.; "Genetic variability among group A and group B respiratory syncytial viruses in a children's hospital." J. Clin. Microbiol. 36:3552-3557(1998).
RA	Nonaka M., Nonaka M., Takenaka O., Okada N., Okada H.; "A new repetitive sequence uniquely present in the decay-accelerating factor genes." Immunogenetics 47:246-255(1998).	RT RT
RT	-; PROTECTION OF CELLS FROM COMPLEMENT-MEDIATED DAMAGE (BY SIMILARITY).	RT RT
RL	Immunogenetics 47:246-255(1998).	RL J. Clin. Microbiol. 36:3552-3557(1998).
CC	-; SIMILARITY: PROTECTION OF CELLS FROM COMPLEMENT ACTIVATION (BY SIMILARITY: BELONGS TO THE RECEPTORS OF COMPLEMENT ACTIVATION (CC FAMILY).	DR EMBL; AF086874; AAC2994.1; -. DR InterPro; IPR00925; Glycoprot_G. DR PF00802; Glycoprotein_G; 1.
CC	Complement pathway.	FT NON_TER 1 FT NON_TER 51 51 SQ SEQUENCE 51 AA; 5545 MW; ED112B05C37548A6 CRC64;
DR	EMBL; AB003315; BAA22903.1; -.	FT NON_TER 52 52 SQ SEQUENCE 52 AA; 5542 MW; C2028FBC5B551270 CRC64;
KW	Complement pathway.	Query Match 16.2%; Score 49; DB 12; Length 52;
FT	NON_TER 1 1	Best Local Similarity 31.8%; Pred. No. 1.3e+02;
SQ	SEQUENCE 51 AA; 5545 MW; ED112B05C37548A6 CRC64;	Mismatches 4; Conservative 4; Mismatches 26; Indels 0; Gaps 0;
Query Match	Score 49; DB 6; Length 51;	QY 6 TRSMAPAGVHLPOPVSRSQHTOPTPEPSTAPTSFLPMGPSP 49
Best Local Similarity	28.9%	Db 4 TNSTTGNLHTSOETLHSSEGNTSPSQTTEYLSPQPPSP 47
Matches	13; Conservative 6; Mismatches 22; Indels 4; Gaps 1;	RESULT 14
Qy	11 PGAVILPQPVSRSQHTOPTPEPSTAPTSFLPMGPSPPAEGST 55	Q9HB17 PRELIMINARY; PRT; 38 AA.
Db	3 PPTVKPTTVNVRITEVSPTRSQKTTTPNAQ---ATRSTPASRTT 43	AC Q9HB17 DT 01-MAR-2001 (TREMBLrel. 16, Created) DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
RESULT	12	DE SIGNALING MOLECULE SPEC1 BETA.
ID	O92302 PRELIMINARY; PRT; 52 AA.	OS Homo sapiens (Human).
AC	O92302;	OC Paravoxviridae; Pneumovirinae; Pneumovirus.
DT	01-NOV-1998 (TREMBLrel. 08, Created)	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
DT	01-NOV-1998 (TREMBLrel. 08, Last sequence update)	OC
DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)	

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Pirone D.M., Fukuhara S., Gutkind S.J., Burbelo P.D.;
 RT "SPECs, small binding proteins for CDC42 proteins.";
 RL J. Biol. Chem. 0:0(2000);
 DR EMBL; AF286592; AAG17723.1; -.
 DR InterPro; IPR001230; PREnylttn.
 DR PROSITE; PS00294; PRENYLATION; UNKNOWN_1.
 DR PROSITE; PS00294; PRENYLATION; UNKNOWN_1.
 SQ SEQUENCE 38 AA; 4245 MW; 3B416F3C5ADF4E91 CRC64;

Query Match 15.9%; Score 48; DB 4; Length 38;
 Best Local Similarity 46.7%; Pred. No. 1.2e+02;
 Matches 14; Conservative 2; Mismatches 6; Indels 8; Gaps 2;
 Qy 14 VHLPPQPVSTRSQHTQPTPEPSTAPSTSFL 4.3
 Db 13 VEKPPQPVSL- ---PTPHPN -PKSSQLL 34

RESULT 15
 Q9GKJ3 PRELIMINARY; PRT; 42 AA.
 ID Q9GKJ3
 AC 09GKJ3
 DT 01-MAR-2001 (TRMBLrel. 16, Created)
 DT 01-MAR-2001 (TRMBLrel. 16, Last sequence update)
 DT 01-MAR-2001 (TRMBLrel. 16, Last annotation update)
 DB MYOSIN LIGHT CHAIN KINASE (FRAGMENT).
 GN MYLK.
 OS Sus scrofa (Pig).
 OC Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus,
 OX NCBI_TaxID=9823;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Van Poucke M., Yerle M., Tuggle C., Chardon P., Van Zeerden A.,
 RA Peelman L.J.;
 RT "Integration of porcine chromosome 13 maps.";
 RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF222917; AAG1130.1; -.
 KW Kinase.
 FT NON-TER 1 1
 FT 4 2
 SQ SEQUENCE 42 AA; 4677 MW; 78BDD867E66BF64F CRC64;

Query Match 15.9%; Score 48; DB 6; Length 42;
 Best Local Similarity 36.6%; Pred. No. 1.4e+02;
 Matches 15; Conservative 2; Mismatches 14; Indels 10; Gaps 2;
 Qy 14 VHLPPQPVSTRS---QHTQPPIPEPSTAPSTSFLPNGPSPP 50
 Db 8 VHSQQVQDFRSVLARKGTPKTPVPEKLP-----PKPKPTP 42

Search completed: August 21, 2002, 10:11:47
 Job time: 275 sec

ATTACHMENTS

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RESULT 1
ABG08614
ID ABG08614 standard; Protein: 51 AA.
XX
AC ABG08614;
XX
DT 13-FEB-2002 (first entry)
DE Novel human diagnostic protein #8605.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic;
KW genetic disorder.
XX

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

11-001.

30 - MAR - 2001;

21 112 8000 000

23-ANAL-2000; 20000JS-034021;

(HYSSE=) HYSSE INC.

Almanac RT: Liu C.

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WP1; Z001-03352/3.
N-PSDB; AAS/2801.

SUMMARIES

Result	No.	Score	Query	Match	Length	DB	ID
	1	81.5	27.0	51	22	ABG0861	
	2	68.5	22.7	47	21	AAB5530	
	3	67.5	22.4	49	19	AANW591	
	4	66.5	22.0	52	22	AAU473	
	5	63.5	21.0	55	22	AUO0747	
	6	61	20.2	47	22	AUO0747	
	7	60	19.9	57	22	AAU6441	
	8	59	19.5	45	12	AAR1226	
	9	58	19.2	52	22	AAU6446	
	10	58	19.2	54	15	AAR4727	
	11	58	19.2	54	15	AAR4753	

PT biodiversity -
 XX Claim 20; SEQ ID No 38973; 103pp; English.
 CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (III) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC the polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations in
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 at ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 51 AA;

Query	3	TSPTRSMAPGAVHLPPQVSTRSQHTQTPEPTAPSISFLPQMGPSPP	Score 81.5;	DB 22;	Length 51;	
Best Local Similarity	41.7%	Pred. No. 0_27;	5;	Mismatches	18;	Indels 5; Gaps 1;
Matches	20;	Conservative				

SQ

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AAB56300 standard; Protein; 47 AA.
ID AAB56300;
XX AC AAB56300;
XX DT 13-MAR-2001 (first entry)
XX DE Human secreted protein sequence encoded by gene 99 SEQ ID NO:394.
XX Human; secreted protein; diagnosis; immunosuppressive; antiarthritic;
  KW antirheumatic; antiproliferative; cytostatic; cardiotonic; vasotropic;
  KW cerebroprotective; nootropic; neuroprotective; antibacterial; virucide;
  KW fungicidal; ophthalmological; gene therapy; pathological condition;
  KW autoimmune disease; rheumatoid arthritis; hyperproliferative disorder;
  KW neoplasm; cardiovascular disorder; angiogenesis; cerebral ischaemia;
  KW Alzheimer's disease; infection; ocular disorder; cerebral ischaemia;
  KW wound healing; skin ageing; food additive; preservative.
  XX Homo sapiens.
  XX WO200070042-A1.
  XX PD 23-NOV-2000.
  XX PF 11-MAY-2000; 2000WO-US12788.
  XX PR 13-MAY-1999; 99US-0134068.
  XX PA (HUMA-) HUMAN GENOME SCI INC.
  XX PI Rosen CA, Ruben SM, Moore PA, Young PE, Komatsoulis GA, Birse CE;
  PI Duan RD, Florence KA, Soppet DR;
  XX
```

WPI; 2000-679828/66.

DR XX Isolated nucleic acid molecule encoding a human secreted protein is
 PT used in preventing, treating or ameliorating a medical condition -
 PT Disclosure; Page 1035; 106pp; English.

PS XX

CC The polynucleotide sequences given in AAC99977 to AAC99918 to AAB56077 to AAB56362. Human secreted
 CC proteins have activities based on the tissues and cells the genes are
 CC expressed in. Examples of activities include: immunosuppressive;
 CC antiarthritic; antiproliferative; cytostatic; cardiotonic;
 CC vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial;
 CC virucide; fungicide; and ophthalmological. The human secreted
 CC polynucleotides and proteins can be used to prevent, treat or ameliorate
 CC a medical condition in e.g. humans, mice, rabbits, goats, horses, cats,
 CC dogs, chickens or sheep. They are also used in diagnosing a pathological
 CC condition or susceptibility to a pathological condition. Disorders which
 CC are diagnosed or treated include autoimmune diseases e.g. rheumatoid
 CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or
 CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular
 CC disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders
 CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and
 CC fungi and ocular disorders e.g. corneal infection. The proteins can also
 CC be used to aid wound healing and epithelial cell proliferation, to
 CC prevent skin aging due to sunburn to maintain organs before
 CC transplantation, for supporting cell culture of primary tissues, to
 CC regenerate tissues and in chemotaxis. The proteins can also be used as a
 CC food additive or preservative to increase or decrease storage
 CC capabilities. AAC99809 to AAC9817 and AAB56076 represent sequences used
 CC in the exemplification of the present invention.

Sequence 47 AA;

SQ

Query Match 27.0%; Score 68.5%; DB 21; Length 47;
 Best Local Similarity 40.5%; Pred. No. 4.7; Mismatches 3; Indels 5; Gaps 1;
 Matches 17; Conservative

Qy ||||| :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| 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| :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| 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| :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :||| | :|||

DR XX

PS XX

AC XX

DT XX 20-NOV-1998 (first entry)

DE XX Amino acid sequence of the mutanase enzyme PT box.

XX XX Mutanase enzyme; PT box; alpha-1,3 glucoside bond; mutan; plaque; bacteria; teeth.

XX XX Bacillus sp.

XX XX JP10201403-A.

PD XX 04-AUG-1998.

XX XX PF 01-OCT-1997; 97JP-0284362.

PR XX 25-NOV-1996; 96JP-0314057.

PA XX (LION) LION CORP.

XX DR WPI; 1998-474495/41.

XX XX Gene encoding a mutanase enzyme - used for prevention and removal of plaque and bacteria on teeth

CC Polypeptides may be used as antigens in the production of antibodies
 CC specific for *P. acnes* proteins. These antibodies can be used to
 CC downregulate expression and activity of *P. acnes* polypeptides and
 CC therefore treat *P. acnes* infections. The antibodies may also be used as
 CC diagnostic agents for determining *P. acnes* presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA).

Note: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format directly from WIPO

CC at ftp://wipo.int/pub/published_pct_sequences.

XX

SEQ 55 AA;

Query Match 21.0%; Score 63.5%; DB 22; Length 55;

Best Local Similarity 40.0%; Pred. No. 17;

Matches 16; Conservative 3; MisMatches 18; Indels 3; Gaps 1;

RESULT 7

AAU07479 standard; Protein; 47 AA.

XX

AC AAO07479;

XX

DT 06-NOV-2001 (first entry)

XX

DE Human polypeptide SEQ ID NO 21371.

XX

KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
 KW vaccine; peptide therapy; stem cell growth factor; haematoopoiesis;
 KW tissue growth factor; immunomodulatory; cancer; leukaemia;
 KW nervous system disorders; arthritis; inflammation.
 XX

Homo sapiens.

XX

WO200164835-A2.

XX

PD 07-SEP-2001.

XX

PA 26-FEB-2001; 2001WO-US04927.

XX

FR 28-FEB-2000; 2000US-0515156.
 FR 18-MAY-2000; 2000US-0577409.
 XX

PA (HYSE) HYSEQ INC.

XX

PI Tang YT, Liu C, Drmanac RT;
 DR WPI: 2001-514831/56.
 DR N-PSDB; AAI87410.

XX

PT Isolated nucleic acids and polypeptides, useful for preventing
 PT diagnosing and treating e.g. leukaemia, inflammation and immune
 PT disorders -

XX

PS Claim 20; SEQ ID NO 21371; 1399pp + Sequence Listing; English.

XX The invention relates to human polynucleotides (AAI79941-AAI93841) and
 CC the encoded proteins (AA000010 AAO13910) that exhibit activity relating to
 CC cytokine, cell proliferation or cell differentiation or which may induce
 CC production of other cytokines in other cell populations. The
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, haemopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC actin/inhibit activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
 CC inflammation.

Note: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp://wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 47 AA;

Query Match 20.2%; Score 61; DB 22; Length 47;

Best Local Similarity 38.6%; Pred. No. 25;

Matches 17; Conservative 5; Mismatches 16; Indels 6; Gaps 2;

XX

Sequence 55 AA;

Query Match 21.0%; Score 63.5%; DB 22; Length 55;

Best Local Similarity 40.0%; Pred. No. 17;

Matches 16; Conservative 3; MisMatches 18; Indels 3; Gaps 1;

RESULT 7

AAU64419 standard; Protein; 57 AA.

XX

AC AAU64419;

XX

DT 27-FEB-2002 (first entry)

XX

Propionibacterium acnes immunogenic protein #25315.

XX

SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;

CC uritis; endophthalmitis; bone; joint; central nervous system; ELISA;

CC inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;

CC dermatological; osteopathic; neuroprotectant.

XX

Propionibacterium acnes.

OS

PN WO200181581-A2.

XX

PD 01-NOV-2001.

XX

PR 20-APR-2001; 2000US-US12865.

XX

PR 21-APR-2000; 2000US-199047P.

PR 02-JUN-2000; 2000US-208841P.

PR 07-JUL-2000; 2000US-216747P.

XX

PA (CORIXA CORP.

XX

PI Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhattacharya A;

XX

DR L'maisonneuve J, Zhang Y, Jen S, Carter D;

XX

DR WPI; 2001-616774/71.

XX

PA (HYSEQ INC.

XX

PT Propionibacterium acnes polypeptides and nucleic acids useful for

PT vaccinating against and diagnosing infections, especially useful for

PT treating acne vulgaris -

XX

PS Example 1; SEQ ID No 25614; 1069pp; English.

XX

CC Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic

CC polypeptides. The proteins and their associated DNA sequences are used in

CC the treatment, prevention and diagnosis of medical conditions caused by

CC *P. acnes*. The disorders include SAPHO syndrome (synovitis, acne,

CC pustulosis, hyperosis and osteomyelitis), uveitis and endophthalmitis.

CC *P. acnes* is also involved in infections of bone, joints and the central

CC nervous system, however it is particularly involved in the inflammatory

CC lesions associated with *P. acnes* vulgaris. A method for detecting the

CC presence or absence of *P. acnes* in a patient comprises contacting a

CC sample with a binding agent that binds to the proteins of the invention

CC and determining the amount of bound protein in the sample. The

CC polypeptides may be used as antigens in the production of antibodies

CC specific for *P. acnes* proteins. These antibodies can be used to

CC downregulate expression and activity of *P. acnes* polypeptides and

CC therefore treat *P. acnes* infections. The antibodies may also be used as

CC diagnostic agents for determining *P. acnes* presence, for example, by

CC enzyme linked immunosorbent assay (ELISA).

CC Note: The sequence data for this patent did not form part of the printed

This is one of 8 specified linking B regions which are derived from a cellulose- or hemicellulose-degrading enzyme and which are enriched in the amino acids Gly and/or Asn and/or Pro and/or Ser and/or Thr and/or Gln. It can be incorporated in a fusion protein comprising a catalytic domain from a cellulase, e.g. a *Bacillus* endoglucanase, and a carbohydrate binding domain from a

Sequence 45 Å: *α*-Lactam Chitosanase. See also Figure 14 above.

RESULT 9

		DT	27-FEB-2002	(first entry)
XX	DE	Propionibacterium acnes immunogenic protein #24358.		
XX	KW	SAPHO syndrome; acne; pustulosis; hypertosis; osteomyelitis;		
XX	KW	uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;		
XX	KW	inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;		
XX	KW	dermatological; osteopathic; neuroprotectant.		
OS	OS	Propionibacterium acnes.		
XX	PN	WO200181581-A2.		
XX	PD	01-NOV-2001.		
XX	PP	20-APR-2001; 2001WO-US12865.		
XX	PR	21-APR-2000; 2000US-199047P.		
PR	02-JUN-2000; 2000US-20841P.			
PR	07-JUL-2000; 2000US-216747P.			
XX	PA	(CORI) CORIXA CORP.		
XX	PI	Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;		
PI	PI	L'maisonneuve J, Zhang Y, Jen S, Carter D;		
XX	DR	2001-616774/71.		
DR	N-PSDB;	ARSS59633.		
XX	PT	Propionibacterium acnes polypeptides and nucleic acids useful for		
PT	PT	vaccinating against and diagnosing infections, especially useful for		
PT	PT	treating acne vulgaris -		
XX	PS	Example 1: SEQ ID NO 24657; 1069pp; English.		
XX	CC	Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by P. acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The polypeptides may be used as antigens in the production of antibodies specific for P. acnes proteins. These antibodies can be used to downregulate expression and activity of P. acnes polypeptides and therefore treat P. acnes infections. The antibodies may also be used as diagnostic agents for determining P. acnes presence, for example, by enzyme linked immunosorbent assay (ELISA).		
CC	Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at fip.wipo.int/pdb/published_pct_sequences .			
XX	SQ	Sequence 52 AA;		
Query Match	19.28;	Score 58;	DB 22;	Length 52;
Best Local Similarity	36.68;	Pred. No. 55;		
Matches 15;	Conservative	Mismatches 5;	Indels 21;	Gaps 0
Qy	5 PTRSMAPGAGHLPLQPVSTRSOHTOPTPEPSTAPSTSFLPMP 45			
Db	12 ptttppparlplpsrssrcslqrrysrststsartpv 52			
RESULT	10			
AAR49722				
AAR49722 standard; peptide: 54 AA.				

XX	WPI; 2001-639362/73.	DR	WPI; 1999-132225/11.
DR	N-PSDB; AAX27690.	DR	N-PSDB; AAX27690.
XX	New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity .	PT	Novel synthetic gene designed from repetitive peptide sequences - of hydroxypoline rich glycoprotein
XX	Claim 20; SEQ ID No 44737; 103pp; English.	PS	Disclosure; Fig 1; 72pp; English.
XX	The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (II) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences. Note: the sequence data for this Patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences .	CC	The invention relates to novel synthetic genes for plant gums. A new approach is described to the production of hydroxyproline-rich glycoproteins (HRGPs), repetitive proline-rich proteins (RPRPs), and arabino-galactan proteins (AGPs). Synthetic genes comprising a nucleic acid encoding the peptide (AAV01267) can be engineered for the production of repetitive glycopeptide modules in cells. The invention provided a new approach to the problem of producing plant gums that is not dependent on environmental factors and greatly simplifies the production of a variety of naturally occurring gums as well as designer gums.
XX	Sequence 53 AA;	SQ	Sequence 41 AA;
XX	Query Match 18.9%; Score 57; DB 22; Length 53; Best Local Similarity 34.9%; Pred. No. 71; Matches 15; Conservative 6; Mismatches 16; Indels 6; Gaps 1;	XX	Query Match 18.7%; Score 56.5; DB 20; Length 41; Best Local Similarity 43.3%; Pred. No. 61; Matches 13; Conservative 3; Mismatches 11; Indels 3; Gaps 1;
XX	Db 4 strasppppppppppppp--ppppsp 30	XX	Db 4 strasppppppppppppp--ppppsp 30
XX	RESULT 14 ID AAO06362 standard; Protein; 56 AA.	XX	RESULT 14 ID AAO06362 standard; Protein; 56 AA.
XX	AC AAO06362;	XX	AC AAO06362;
XX	DT 06-NOV-2001 (first entry)	XX	DT 06-NOV-2001 (first entry)
XX	DE Human polypeptide SEQ ID NO 20254.	XX	DE Human polypeptide SEQ ID NO 20254.
XX	KW Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematoopoiesis; tissue growth factor; immunomodulator; cancer; leukaemia; nervous system disorders; arthritis; inflammation.	XX	KW Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematoopoiesis; tissue growth factor; immunomodulator; cancer; leukaemia; nervous system disorders; arthritis; inflammation.
XX	OS Homo sapiens.	XX	OS Homo sapiens.
XX	PN WO200164835-A2.	XX	PN WO200164835-A2.
XX	PD 07-SEP-2001.	XX	PD 07-SEP-2001.
XX	PF 26-FEB-2001; 2001WO-US04927.	XX	PF 26-FEB-2001; 2001WO-US04927.
XX	PR 28-FEB-2000; 2000US-0515126.	XX	PR 28-FEB-2000; 2000US-0515126.
XX	PR 18-MAY-2000; 2000US-0577409.	XX	PR 18-MAY-2000; 2000US-0577409.
XX	(HYSE-) HYSEQ INC.	XX	(HYSE-) HYSEQ INC.
XX	PA Tang YT, Liu C, Drmanac RT;	XX	PA Tang YT, Liu C, Drmanac RT;
XX	PN WO9903978-A1.	XX	PN WO9903978-A1.
XX	PD 28-JAN-1999.	XX	PD 28-JAN-1999.
XX	DE Peptide encoded by HRGP gene cassette.	XX	DE Peptide encoded by HRGP gene cassette.
XX	KW Synthetic gene; plant; gum; hydroxyproline-rich glycoprotein; HRGP;	XX	KW Synthetic gene; plant; gum; hydroxyproline-rich glycoprotein; HRGP;
XX	KW repetitive proline-rich protein; RPRP; arabino-galactan protein; AGP;	XX	KW repetitive proline-rich protein; RPRP; arabino-galactan protein; AGP;
XX	KW glycopeptide; internal repeat.	XX	KW glycopeptide; internal repeat.
XX	PS Synthetic.	XX	PS Synthetic.
XX	PA Kieliszewski MJ;	XX	PA Kieliszewski MJ;
XX	PA (UYOH-) UNIV OHIO.	XX	PA (UYOH-) UNIV OHIO.
XX	PS WPI; 2001-639362/73 + Sequence Listing; English.	CC	CC the invention relates to human polyneurotoids (AAI7991-AAI7991) and the encoded proteins (AA000010-AA003910) that exhibit activity relating to disorders -
XX	PS Isolated nucleic acids and polypeptides, useful for preventing disorders -	CC	CC the invention relates to human polyneurotoids (AAI7991-AAI7991) and the encoded proteins (AA000010-AA003910) that exhibit activity relating to disorders -

CC cytokine, cell proliferation or cell differentiation or which may induce
 CC production of other cytokines in other cell populations. The may induce
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, haemopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC activin/inhibin activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukemia, nervous system disorders, arthritis and
 CC inflammation.

Note: The sequence data for this patent did not form part of the printed

specification, but was obtained in electronic format directly from WIPO

at ftp://wipo.int/pub/published_pct_sequences.

XX Sequence 56 AA;

Query Match 18.7%; Score 56.5; DB 22; Length 56;
 Best Local Similarity 32.7%; Pred. No. 84;
 Matches 18; Conservative 3; Mismatches 27; Indels 7; Gaps 3;
 QY 4 SPTRSNAPGAVHLFQPVSTRSQHTQPTPEPSTAPSFSLLP-----MGPSPPAEG 53
 Db 4 spsakkppqkpkdksnps-srsis-hpfpffffpxtppppexypppkgewgarppqq 56

RESULT 15

ABB38671
 ID ABB38671 standard; Peptides: 47 AA.
 XX

AC ABB38671;

XX DT 04-FEB-2002 (first entry)

DE Peptide #6177 encoded by human foetal liver single exon probe.

XX Human; foetal liver; gene expression; single exon nucleic acid probe.
 XX Homo sapiens.
 XX OS Homo sapiens.
 XX PN WO200157277-A2.
 XX PD 09-AUG-2001.
 XX PF 30-JAN-2001; 2001WO-US00669.
 XX PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.

XX PA (MOLE) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX DR 2001-483447/52.

XX Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human fetal liver -
 XX

PS Claim 27; SEQ ID NO 31306; 639pp + sequence listing; English.

XX The invention relates to a single exon nucleic acid probe for
 CC measuring human gene expression in a sample derived from human foetal
 CC liver. The single exon nucleic acid probe may be used for predicting,
 CC measuring and displaying gene expression in samples derived from human
 CC fetal liver. The present sequence is a peptide encoded by a single exon
 CC nucleic acid probe of the invention.
 Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp://wipo.int/pub/published_pct_sequences.

CC cytokine, cell proliferation or cell differentiation or which may induce
 CC production of other cytokines in other cell populations. The may induce
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, haemopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC activin/inhibin activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukemia, nervous system disorders, arthritis and
 CC inflammation.
 Note: The sequence data for this patent did not form part of the printed
 specification, but was obtained in electronic format directly from WIPO
 at ftp://wipo.int/pub/published_pct_sequences.

XX Sequence completed: August 21, 2002, 10:07:44

Job time: 257 sec

Query Match 18.5%; Score 56; DB 22; Length 47;
 Best Local Similarity 38.3%; Pred. No. 79;
 Matches 18; Conservative 2; Mismatches 23; Indels 4; Gaps 2;
 QY 5 PTRSMAPGAVHLFQPVSTRSQHTQPTPEPSTAPSFSLLPMGPSP 50
 Db 1 pctvaappaaaap---peragptspaaavapstlssscpatpcpp 44

Result No.	Score	Query	Match	Length	DB ID	Description
1	83	27.5	15 1	US-08-221-583-56	Sequence 56, Appl	
2	83	27.5	15 5	PCT-US95-04018-56	Sequence 56, Appl	
3	82	27.2	15 1	US-08-221-583-58	Sequence 58, Appl	
4	82	27.2	15 1	PCT-US95-04018-58	Sequence 58, Appl	
5	81	26.8	15 1	US-08-221-583-57	Sequence 57, Appl	
6	81	26.8	15 1	US-08-221-583-62	Sequence 62, Appl	
7	81	26.8	15 1	PCT-US95-04018-57	Sequence 57, Appl	
8	81	26.8	15 1	PCT-US95-04018-62	Sequence 62, Appl	
9	80	26.5	15 1	US-08-221-583-55	Sequence 55, Appl	
10	80	26.5	15 1	US-08-221-583-59	Sequence 55, Appl	
11	80	26.5	15 5	PCT-US95-04018-55	Sequence 55, Appl	
12	80	26.5	15 1	PCT-US95-04018-59	Sequence 59, Appl	
13	79	26.2	15 1	US-08-221-583-61	Sequence 61, Appl	
14	79	26.2	15 5	PCT-US95-04018-61	Sequence 61, Appl	
15	78	25.8	15 1	US-08-221-583-60	Sequence 60, Appl	
16	78	25.8	15 5	PCT-US95-04018-60	Sequence 60, Appl	
17	69	22.8	15 1	US-08-221-583-54	Sequence 54, Appl	
18	69	22.8	15 1	PCT-US95-04018-54	Sequence 54, Appl	
19	59	19.5	45 1	US-08-221-583-61	Sequence 59, Appl	
20	59	19.5	45 1	US-08-479-919-19	Sequence 19, Appl	
21	59	19.5	45 1	US-08-483-412-19	Sequence 19, Appl	
22	58	19.2	54 1	US-08-471-780C-44	Sequence 44, Appl	
23	58	19.2	54 1	US-08-167-282B-44	Sequence 44, Appl	
24	58	19.2	54 2	US-08-471-282A-44	Sequence 44, Appl	
25	58	19.2	54 2	US-08-166-710C-44	Sequence 44, Appl	
26	58	19.2	54 3	US-08-468-739C-44	Sequence 44, Appl	
27	55	18.2	15 1	US-08-221-583-53	Sequence 53, Appl	
					Sequence 39, Appl	
					Patent No. 5518916	
					Sequence 37, Appl	
					Sequence 29, Appl	
					Sequence 1, Appl	
					Sequence 43, Appl	
					Sequence 43, Appl	
					Patent No. 5422248	
					Sequence 15, Appl	
					Sequence 11, Appl	
					Sequence 1, Appl	
					Sequence 7, Appl	
					Sequence 13, Appl	
					Sequence 13, Appl	
					Sequence 47, Appl	
					ALIGNMENTS	
					RESULT 1	
					US-08-221-583-56	
					; Sequence 56, Application US/08221583	
					; Patent No. 5486395	
					; GENERAL INFORMATION:	
					; APPLICANT: Heavner, George A.	
					; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors	
					; NUMBER OF SEQUENCES: 62	
					; CORRESPONDENCE ADDRESS:	
					; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5486595ris	
					; STREET: One Liberty Place 46th Floor	
					; CITY: Philadelphia	
					; STATE: Pennsylvania	
					; COUNTRY: USA	
					; ZIP: 19403	
					; COMPUTER READEABLE FORM:	
					; MEDIUM TYPE: Floppy disk	
					; COMPUTER: IBM PC compatible	
					; OPERATING SYSTEM: PC-DOS/MS-DOS	
					; SOFTWARE: PatentIn Release #1.0, Version #1.25:mdctcMod.	
					; CURRENT APPLICATION DATA:	
					; APPLICATION NUMBER: US/08/221-583	
					; FILING DATE:	
					; CLASSIFICATION: 514	
					; ATTORNEY/AGENT INFORMATION:	
					; NAME: DELUCA, Mark	
					; REGISTRATION NUMBER: 33,229	
					; REFERENCE/DOCKET NUMBER: CCOR-0185	
					; TELECOMMUNICATION INFORMATION:	
					; TELEPHONE: (215) 568-3100	
					; TELEFAX: (215) 568-3439	
					; INFORMATION FOR SEQ ID NO: 56:	
					; SEQUENCE CHARACTERISTICS:	
					; LENGTH: 15 amino acids	
					; TYPE: amino acid	
					; TOPOLOGY: linear	
					; MOLECULE TYPE: peptide	
					; OS-08-221-583-56	
					Query Match Score 83; DB 1; Length 15;	
					Best Local Similarity 100.0%; Pred. No. 0.004;	
					Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	15	HLPQPVSTRSQTQ	15		Db 1 HLPQPVSTRSQTQ	
RESULT	2					

PCT-US95-04018-56
; Sequence 56, Application PC/TUS9504018
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; APPLICANT: Kruszynski, Marian
; APPLICANT: Mervic, Miljenko
; APPLICANT: Weber, Robert W.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 76
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19403
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04018
; FILING DATE:
; CLASSIFICATION:
; PCT-US95-04018-58
; Sequence 58, Application PC/TUS9504018
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; APPLICANT: Kruszynski, Marian
; APPLICANT: Mervic, Miljenko
; APPLICANT: Weber, Robert W.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 76
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19403
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04018
; FILING DATE:
; CLASSIFICATION:
; PCT-US95-04018-59
; Sequence 59, Application PC/TUS9504018
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & NO. 5486595ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania

COUNTRY: USA
; ZIP: 19403
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25:mdctcMod.
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,583
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DeLuca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: CCOR-0185
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 58:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; US-08-221-583-58
; Query Match 27.2% ; Score 82; DB 1; Length 15;
; Best Local Similarity 100.0%; Pred. No. 0.0051;
; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; QY 24 SOHTQPPPEPSTAPS 38
; Db 1 SOHTQPPPEPSTAPS 15
; RESULT 4
; PCT-US95-04018-58
; Sequence 58, Application PC/TUS9504018
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; APPLICANT: Kruszynski, Marian
; APPLICANT: Mervic, Miljenko
; APPLICANT: Weber, Robert W.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 76
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Norris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19403
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04018
; FILING DATE:
; CLASSIFICATION:
; PCT-US95-04018-58
; Sequence 58, Application PC/TUS9504018
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & NO. 5486595ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania

RESULT 6
US-08-221-583-62
; Sequence 62, Application US/08221583
; Patent No. 5486595
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5486595ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19403
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25:mdctcmMod.
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221.583
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DeLuca, Mark
; REGISTRATION NUMBER: 33,229
; PATENT NUMBER: CCOR-0232
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 58:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US95-0418-58

Query Match 27.4%; Score 82; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0051; Mismatches 0; Indels 0; Gaps 0;
Matches 15; Conservative 0;

Qy 24 SQHTOPTPEPSTAPS 38
Db 1 SQHTOPTPEPSTAPS 15

RESULT 5
US-08-221-583-57
; Sequence 57, Application US/08221583
; Patent No. 5486595
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5486595ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19403
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25:mdctcmMod.
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221.583
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DeLuca, Mark
; REGISTRATION NUMBER: 33,229
; PATENT NUMBER: CCOR-0185
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-221-583-57

Query Match 26.8%; Score 81; DB 16; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0065; Mismatches 0; Indels 0; Gaps 0;
Matches 15; Conservative 0;

Qy 21 STRSQHTOPTPEPST 35
Db 1 STRSQHTOPTPEPST 15

RESULT 7
PCT-US95-04018-57
; Sequence 57, Application PC/TUS9504018
; GENERAL INFORMATION:
; APPLICANT: Heavner, George A.
; APPLICANT: Kruzsynski, Marian
; APPLICANT: Mervic, Miljenko
; APPLICANT: Weber, Robert W.
; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
; NUMBER OF SEQUENCES: 76
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Norris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19403
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:

```

; APPLICATION NUMBER: PCT/US95/04018
; FILING DATE: US 08/221, 580
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/221, 580
; FILING DATE: 01-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/221, 583
; FILING DATE: 01-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/221, 581
; FILING DATE: 01-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: DeLuca, Mark
; REGISTRATION NUMBER: 33, 229
; REFERENCE/DOCKET NUMBER: CCCR-0232
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US95-04018-62

RESULT 8
Query Match 26.8%; Score 81; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0065;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
INFORMATION FOR SEQ ID NO: 57:
Qy 21 STRSQHTQPTPEPST 35
Db 1 STRSQHTQPTPEPST 15

RESULT 9
Query Match 26.8%; Score 81; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0065;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
INFORMATION FOR SEQ ID NO: 62:
Qy 36 APSTSFLPMGFSPP 50
Db 1 APSTSFLPMGFSPP 15

RESULT 9
US-08-221-583-55
Sequence 55, Application US/08221583
Patent No. 5486595
GENERAL INFORMATION:
APPLICANT: Heavner, George A.
TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
NUMBER OF SEQUENCES: 62
CORRESPONDENCE ADDRESS:
STREET: One Liberty Place 46th Floor
CITY: Philadelphia
STATE: Pennsylvania
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25:m3ctcmMod.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221, 583
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DeLuca, Mark
REGISTRATION NUMBER: 33, 229
REFERENCE/DOCKET NUMBER: CCCR-0185
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-3100
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-221-583-55

Query Match 26.5%; Score 80; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0083;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
INFORMATION FOR SEQ ID NO: 26:
Qy 12 GAVHLPQPVSTRSQH 26
Db 1 GAVHLPQPVSTRSQH 15

```

RESULT 10
US-08-221-583-59
Sequence 59, Application US/08221583
Patent No. 5486595

GENERAL INFORMATION:
APPLICANT: Heavner, George A.
TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
NUMBER OF SEQUENCES: 62
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5486595ris
STREET: One Liberty Place 46th Floor
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: USA
ZIP: 1903

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, version #1.25:mdctMod.

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221, 583
FILING DATE: 10/10/1995
CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:
NAME: DeLuca, Mark
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: CCOR-0185

TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-1100
TELEFAX: (215) 568-3439

INFORMATION FOR SEQ ID NO: 59:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (215) 568-3100
 TELEX/FAX: (215) 568-1439
 INFORMATION FOR SEQ ID NO: 59:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 15 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide

JS-08-221-583-59

Query Match 26.5%; Score 80; DB 5; Length 15;
 Best Local Similarity 100.0%; Pred. No. 0.0083;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 GAVHLQPVSTRSQH 26
 Db 1 GAVHLQPVSTRSQH 15

RESULT 12
 PCT-US95-04018-59
 Sequence 59, Application PC/TUS9504018
 GENERAL INFORMATION:
 APPLICANT: Heavner, George A.
 APPLICANT: Kruszynski, Marian
 APPLICANT: Mervic, Miljenko
 APPLICANT: Weber, Robert W.
 TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
 NUMBER OF SEQUENCES: 76
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &
 ADDRESS: One Liberty Place
 STREET: One Liberty Place 46th Floor
 CITY: Philadelphia
 STATE: Pennsylvania
 COUNTRY: USA
 ZIP: 19403
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/04018
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/221,580
 FILING DATE: 01-APR-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/221,583
 FILING DATE: 01-APR-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/221,584
 FILING DATE: 01-APR-1994
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Wordperfect 5.1

Query Match 26.5%; Score 80; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 0.0083;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 27 TQTPPEPTSTAPSFSF 41
 Db 1 TQTPPEPTSTAPSFSF 15

RESULT 11
 PCT-US95-04018-55
 Sequence 55, Application PC/TUS9504018
 GENERAL INFORMATION:
 APPLICANT: Heavner, George A.
 APPLICANT: Kruszynski, Marian
 APPLICANT: Mervic, Miljenko
 APPLICANT: Weber, Robert W.
 TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
 NUMBER OF SEQUENCES: 76
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Norris
 ADDRESS: One Liberty Place
 STREET: One Liberty Place 46th Floor
 CITY: Philadelphia
 STATE: Pennsylvania
 COUNTRY: USA
 ZIP: 19403
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/04018
 FILING DATE:

; FILING DATE: 01-APR-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: DeLuca, Mark
 ; REFERENCE/DOCKET NUMBER: 33,229
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (215) 568-3100
 ; TELEXFAX: (215) 568-3439
 ; INFORMATION FOR SEQ ID NO: 59:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 15 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 PCT-US95-04018-59

RESULT 14
 PCT-US95-04018-61
 Sequence 61, Application PC/TUS9504018
 ; GENERAL INFORMATION:
 ; APPLICANT: Heavner, George A.
 ; APPLICANT: Kruszynski, Marian
 ; APPLICANT: Mervic, Miljenko
 ; APPLICANT: Weber, Robert W.
 ; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
 ; NUMBER OF SEQUENCES: 76
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz &
 ; ADDRESSEE: Norris
 ; STREET: One Liberty Place 46th Floor
 ; CITY: Philadelphia
 ; STATE: Pennsylvania
 ; COUNTRY: USA
 ; ZIP: 19403
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WordPerfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/04018
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/221,580
 FILING DATE: 01-APR-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/221,583
 FILING DATE: 01-APR-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/221,581
 FILING DATE: 01-APR-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: DeLuca, Mark
 REGISTRATION NUMBER: 33,229
 REFERENCE/DOCKET NUMBER: CCCR-0232
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (215) 568-3100
 TELEXFAX: (215) 568-3439
 INFORMATION FOR SEQ ID NO: 61:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 15 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 PCT-US95-04018-61

Query Match 26.5%; Score 80; DB 5; Length 15;
 Best Local Similarity 100.0%; Pred. No. 0.0083;
 Matches 15; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

Qy 27 TQTPPEPSTAPSTS 41
 Db 1 TQTPPEPSTAPSTS 15

RESULT 13
 US-08-221-583-61
 Sequence 61, Application US/08221583
 ; Patent No. 5486595
 ; GENERAL INFORMATION:
 ; APPLICANT: Heavner, George A.
 ; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
 ; NUMBER OF SEQUENCES: 62
 ; CURRENT APPLICATION DATA:
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5486595ris
 ; STREET: One Liberty Place 46th Floor
 ; CITY: Philadelphia
 ; STATE: Pennsylvania
 ; COUNTRY: USA
 ; ZIP: 19403
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentNet Release #1.0, Version #1.25:mdctctod.
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,583
 FILING DATE:
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: DeLuca, Mark
 REGISTRATION NUMBER: 33,229
 REFERENCE/DOCKET NUMBER: CCCR-0185
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (215) 568-3100
 TELEXFAX: (215) 568-3439
 INFORMATION FOR SEQ ID NO: 61:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 15 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-221-583-61

Query Match 26.2%; Score 79; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 0.0111;
 Matches 15; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

Qy 33 PSTAPSTFLPMGP 47
 Db 1 PSTAPSTFLPMGP 15

RESULT 15
 US-08-221-583-60
 Sequence 60, Application US/08221583
 ; Patent No. 5486595
 ; GENERAL INFORMATION:
 ; APPLICANT: Heavner, George A.
 ; TITLE OF INVENTION: Tumor Necrosis Factor Inhibitors
 ; NUMBER OF SEQUENCES: 62
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5486595ris

STREET: One Liberty Place 46th Floor
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19403
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, version #1.25:indctMod.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,583
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DeLuce, Mark
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: CCOR-0185
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-3100
TELEFAX: (215) 568-3439
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-221-583-60

Query Match 25.8%; Score 78; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.013; Mismatches 0; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 30 TPEPSTAPTSFLLP 44
| | | | | | | | | | | | | | | |
Db 1 TPEPSTAPTSFLLP 15

Search completed: August 21, 2002, 10:07:08
Job time: 336 sec